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DN  IND23278031
TI  Dramatic effects of truncation and sub-cellular targeting on the
    accumulation of recombinant microbial cellulase in tobacco.
AU  Ziegelhoffer, T.; Raasch, J.A.; Austin-Phillips, S.
AV  DNAL (QK981.4.M63)
SO  Molecular breeding : new strategies in plant improvement, Sept 2001. Vol.
    8, No. 2. p. 147-158
    Publisher: Dordrecht ; Boston : Kluwer Academic Publishers, c1995-
    CODEN: MOBRFL; ISSN: 1380-3743
NTE Includes references
CY  Netherlands
DT  Article
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AN 2002:32413 AGRICOLA

DN IND23266483

TI Utilization of commercial non-chitinase enzymes from fungi for preparation of 2-acetamido-2-deoxy-D-glucose from beta-chitin.

AU Sukwattanasinitt, M.; Zhu, H.; Sashiwa, H.; Aiba, S.

SO Carbohydrate research, Feb 5, 2002. Vol. 337, No. 2. p. 133-137
 Publisher: Oxford : Elsevier Science Ltd.
 CODEN: CRBRAT; ISSN: 0008-6215

NTE Includes references

CY England; United Kingdom

DT Article

FS Non-U.S. Imprint other than FAO

LA English

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AN 1998:75606 AGRICOLA

DN IND21641015

TI Hydrolysis of cellulose using ternary mixtures of purified cellulases.

AU Baker, J.O.; Ehrman, C.I.; Adney, W.S.; Thomas, S.R.; Himmel, M.E.

CS Biotechnology Center for Fuels and Chemicals, Golden, CO.

SO Applied biochemistry and biotechnology, Spring 1998. Vol. 70/72 p. 395-403
 Publisher: Totowa, N.J. : Humana Press.
 CODEN: ABIBDL; ISSN: 0273-2289

NTE Proceedings of the Nineteenth Symposium on Biotechnology for Fuels and Chemicals, May 4-8, 1997, Colorado Springs, Colorado.
 Includes references

CY New Jersey; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

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AN 93:20935 AGRICOLA

DN IND93008558

TI Enhanced production of **cellulase** using **Acidothermus cellulolyticus** in fed-batch culture.

AU Shiang, M.; Linden, J.C.; Mohagheghi, A.; Grohmann, K.; Himmel, M.E.

CS Colorado State University, Fort Collins, CO

AV DNAL (QR1.E9)

SO Applied microbiology and biotechnology, Feb 1991. Vol. 34, No. 5. p. 591-597
 Publisher: Berlin, W. Ger. : Springer International.
 CODEN: AMBIDG; ISSN: 0175-7598

NTE Includes references.

DT Article

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AN 93:10025 AGRICOLA
 DN IND92077795
 TI **Cellulase** production by **Acidothermus cellulolyticus**.
 AU Shiang, M.; Linden, J.C.; Mohagheghi, A.; Rivard, C.J.; Grohmann, K.; Himmel, M.E.
 CS Colorado State University, Fort Collins, CO
 AV DNAL (QD415.A1J62)
 SO Applied biochemistry and biotechnology, Spring/Summer 1990. Vol. 24/25 p. 223-235
 Publisher: Totowa, N.J. : Humana Press.
 CODEN: JSBIDL; ISSN: 0273-2289
 NTE Includes references.
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 AN 92:59945 AGRICOLA
 DN IND92032755
 TI **Cellulase** production by **Acidothermus cellulolyticus**: growth on solka floc cellulose and simple sugar mixtures.
 AU Shiang, M.; Linden, J.C.; Mohagheghi, A.; Tucker, M.P.; Grohmann, K.; Himmel, M.E.
 CS Colorado State University, Fort Collins, CO
 AV DNAL (QD415.A1J63)
 SO Biotechnology and applied biochemistry, Aug 1991. Vol. 14, No. 1. p. 30-40
 Publisher: Orlando, Fla. : Academic Press.
 CODEN: JABIDV; ISSN: 0885-4513
 NTE Includes references.
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

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 DN 0998973
 TI Hydrolysis of cellulose using ternary mixtures of purified cellulases.
 AU Baker J O Ehrman C I Adney W S Thomas S R Himmel M E
 CS Biotechnol. Cent. Fuels Chem., Natl. Renewable Energy Lab., Golden, CO 80401, USA.
 SO Applied Biochemistry and Biotechnology, (1998) Vol.70-72, p.395-403.
 ISSN: 0273-2289.
 DT ARTICLE
 FS NONUNIQUE
 LA English

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 AN 96:40901 BIOBUSINESS
 DN 0805762
 TI Cloning of **cellulase** genes from **Acidothermus cellulolyticus**
 AU Lastick S M; Tucker M P; Grohmann K
 CS Chicago, Ill., USA.
 PI US 5514584 7 May 1996
 SO Official Gazette of the United States Patent and Trademark Office Patents, (1996) Vol.1186, No.1, May 7, P.408-409.
 ISSN: 0098-1133.

DT PATENT
FS UNIQUE
LA ENGLISH

L3 ANSWER 9 OF 181 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 91:52354 BIOBUSINESS
DN 0374815
TI Regulation of **cellulase** synthesis in **Acidothermus**

cellulolyticus.
AU SHIANG M; LINDEN J C; MOHAGHEGHI A; GROHMANN K; HIMMEL M E
CS SOLAR ENERGY RES. INST., 1617 COLE BLVD., GOLDEN, COLO. 80401.
SO BIOTECHNOLOGY PROGRESS, (1991) VOL.7, NO.4, P.315-322.
FS NONUNIQUE
LA ENGLISH

L3 ANSWER 10 OF 181 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 89:29290 BIOBUSINESS
DN 0205088
TI ULTRA-THERMOSTABLE **CELLULASES** FROM **ACIDOTHERMUS**
CELLULOLYTICUS: COMPARISON OF TEMPERATURE OPTIMA WITH PREVIOUSLY
REPORTED CELLULASES.

AU TUCKER M P; MOHAGHEGHI A; GROHMANN K; HIMMEL M E
CS APPLIED BIOL. SCI. SECT., BIOTECHNOL. RES. BRANCH, SOLAR FUELS RES. DIV.,
SOLAR ENERGY RES. INST., 1617 COLE BLVD., GOLDEN, COLO. 80401.
SO BIO-TECHNOLOGY (NEW YORK), (1989) VOL.7, NO.8, P.817-820.
FS NONUNIQUE
LA ENGLISH

L3 ANSWER 11 OF 181 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 87:5729 BIOBUSINESS
DN 0091768
TI CLONING AND EXPRESSION IN ESCHERICHIA COLI OF A THERMOANAEROBACTER
CELLULOLYTICUS GENE CODING FOR HEAT-STABLE B-GLUCANASE.
AU HONDA H; NAITO H; TAYA M; IIJIMA S; KOBAYASHI T
CS DEP. OF CHEMICAL ENG., FAC. OF ENG., NAGOYA UNIV., CHIKUSA-KU, NAGOYA 464,
JPN.
SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (1987) VOL.25, NO.5, P.480-483.
FS NONUNIQUE
LA ENGLISH

L3 ANSWER 12 OF 181 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 87:2911 BIOBUSINESS
DN 0087739
TI FACTORS INVOLVED IN HYDROLYSIS OF MICROCRYSTALLINE CELLULOSE BY
ACETIVIBRIO CELLULOLYTICUS.
AU MACKENZIE C R; PATEL G B; BILOUS D
CS DIVISION OF BIOLOGICAL SCIENCES, NATIONAL RESEARCH COUNCIL, OTTAWA,
ONTARIO, CANADA K1A 0R6.
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (1987) VOL.53, NO.2, P.304-308.
FS NONUNIQUE
LA ENGLISH

L3 ANSWER 13 OF 181 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN
AN 85:13683 BIOBUSINESS
DN 0027659
TI STUDIES ON CELLULOSE HYDROLYSIS BY ACETIVIBRIO CELLULOLYTICUS.
AU MACKENZIE C R; BILOUS D; PATEL G B
CS DIV. BIOLOGICAL SCI., NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA,
ONTARIO, CANADA K1A 0R6.
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (1985) VOL.50, NO.2, P.243-248.
FS NONUNIQUE
LA ENGLISH

L3 ANSWER 14 OF 181 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
AN 0079908 BIOCOMMERCE FS Abstract
CO Colorado State University (CSU) (1302), USA
Solar Energy Research Institute (SERI) (2111), USA
SO Nature, JUL 1991, vol. 74, Page(s) 315-322.
TC (General information not published in print edition)

L3 ANSWER 15 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2004:246498 BIOSIS
DN PREV200400247445
TI Energetics for displacing a single chain from the surface of
microcrystalline cellulose into the active site of Acidothermus
cellulolyticus Cel5A.
AU Skopec, C. E.; Himmel, M. E.; Matthews, J. F.; Brady, J. W. [Reprint
Author]
CS Department of Food Science, Cornell University, Stocking Hall, Ithaca, NY,
14853, USA
jwb7@cornell.edu
SO Protein Engineering, (December 2003) Vol. 16, No. 12, pp. 1005-1015.
print.
ISSN: 0269-2139 (ISSN print).
DT Article
LA English
ED Entered STN: 6 May 2004
Last Updated on STN: 6 May 2004

L3 ANSWER 16 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:269056 BIOSIS
DN PREV200200269056
TI 4-Methyl-7-thioubelliferyl-beta-D-cellobioside: A fluorescent,
nonhydrolyzable substrate analogue for cellulases.
AU Barr, Brian K. [Reprint author]; Holewinski, Ronald J.
CS Department of Chemistry, Loyola College in Maryland, Baltimore, MD,
21210-2699, USA
bbarr@loyola.edu
SO Biochemistry, (April 2, 2002) Vol. 41, No. 13, pp. 4447-4452. print.
CODEN: BICHAW. ISSN: 0006-2960.
DT Article
LA English
ED Entered STN: 1 May 2002
Last Updated on STN: 1 May 2002

L3 ANSWER 17 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:43249 BIOSIS
DN PREV200200043249
TI Cloning of **cellulase** genes from **Acidothermus**
cellulolyticus.
AU Lastick, S. M. [Inventor]; Tucker, M. P. [Inventor]; Grohmann, K.
[Inventor]
CS Chicago, Ill., USA
ASSIGNEE: MIDWEST RESEARCH INSTITUTE
PI US 5514584 May 7, 1996
SO Official Gazette of the United States Patent and Trademark Office Patents,
(May 7, 1996) Vol. 1186, No. 1, pp. 408-409. print.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 2 Jan 2002
Last Updated on STN: 25 Feb 2002

L3 ANSWER 18 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2001:438304 BIOSIS
 DN PREV200100438304
 TI Effects of cellulase, lactic acid bacteria and wilting on the fermentation quality of reed canarygrass silages.
 AU Tagawa, Shin-ichi [Reprint author]; Okajima, Tsuyoshi; Ito, Mutsuyasu
 CS Graduate School of Science and Technology, Niigata University, Ikarashi, Niigata, 950-2181, Japan
 SO Grassland Science, (June, 2001) Vol. 47, No. 2, pp. 157-162. print.
 CODEN: NPSGAI. ISSN: 0447-5933.
 DT Article
 LA Japanese
 ED Entered STN: 19 Sep 2001
 Last Updated on STN: 22 Feb 2002

L3 ANSWER 19 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:100176 BIOSIS
 DN PREV199900100176
 TI Effect of additives, storage temperature and regional difference of ensiling on the fermentation quality of napier grass (*Pennisetum purpureum* Schum.) silage.
 AU Tamada, J.; Yokota, H. [Reprint author]; Ohshima, M.; Tamaki, M.
 CS Lab. Grassl. Sci., Farm, Sch. Agric. Sci., Nagoya Univ., Togo, Aichi 470-0151, Japan
 SO Asian-Australasian Journal of Animal Sciences, (Feb., 1999) Vol. 12, No. 1, pp. 28-35. print.
 ISSN: 1011-2367.
 DT Article
 LA English
 ED Entered STN: 4 Mar 1999
 Last Updated on STN: 4 Mar 1999

L3 ANSWER 20 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1998:270339 BIOSIS
 DN PREV199800270339
 TI Effects of addition of cell wall degrading enzyme derived from *Acremonium cellulolyticus* Y-94 on fermentation quality, dry matter recovery and cell wall components of grass silage.
 AU Aisan, Aniwaru [Reprint author]; Ataku, Kazuo; Narasaki, Noboru; No, Eiji
 CS Rakuno Gakuen Univ., Ebetsu, Hokkaido 069, Japan
 SO Grassland Science, (Jan., 1998) Vol. 43, No. 4, pp. 406-412. print.
 CODEN: NPSGAI. ISSN: 0447-5933.
 DT Article
 LA Japanese
 ED Entered STN: 24 Jun 1998
 Last Updated on STN: 24 Jun 1998

L3 ANSWER 21 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1990:300823 BIOSIS
 DN PREV199039019004; BR39:19004
 TI **CELLULASE** PRODUCTION BY **ACIDOTHERMUS-CELLULOLYTICUS** GROWTH ON SOLKA FLOC CELLULOSE AND SIMPLE SUGAR MIXTURES.
 AU SHIANG M [Reprint author]; LINDEN J C; MOHAGEHGHI A; HIMMEL M E; TUCKER M P; GROHMANN K
 CS DEP MICROBIOL, COLO STATE UNIV, FORT COLLINS, COLO 80523, USA
 SO Abstracts of Papers American Chemical Society, (1990) Vol. 199, No. 1-2, pp. BIOT 21.
 Meeting Info.: 199TH ACS (AMERICAN CHEMICAL SOCIETY) NATIONAL MEETING, BOSTON, MASSACHUSETTS, USA, APRIL 22-27, 1990. ABSTR PAP AM CHEM SOC.
 CODEN: ACSRAL. ISSN: 0065-7727.
 DT Conference; (Meeting)
 FS BR

LA ENGLISH
 ED Entered STN: 27 Jun 1990
 Last Updated on STN: 10 Jul 1990

L3 ANSWER 22 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1984:103114 BIOSIS
 DN PREV198427019606; BR27:19606
 TI PARTIAL CHARACTERIZATION OF ACETIVIBRIO-**CELLULOLYTICUS**
CELLULASE.
 AU MACKENZIE C R [Reprint author]; PATEL G B
 CS DIV BIOL SCI, NATL RES COUNCIL CAN, OTTAWA, ONT, CAN
 SO Abstracts of the Annual Meeting of the American Society for Microbiology,
 (1984) Vol. 84, pp. ABSTRACT K148.
 Meeting Info.: 84TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR
 MICROBIOLOGY, ST. LOUIS, MO., USA, MAR. 4-9, 1984. ABSTR ANNU MEET AM SOC
 MICROBIOL.
 CODEN: ASMACK. ISSN: 0094-8519.
 DT Conference; (Meeting)
 FS BR
 LA ENGLISH

L3 ANSWER 23 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1983:325662 BIOSIS
 DN PREV198376083154; BA76:83154
 TI LOCATION AND KINETIC PROPERTIES OF THE **CELLULASE** SYSTEM OF
 ACETIVIBRIO-**CELLULOLYTICUS**.
 AU MACKENZIE C R [Reprint author]; BILOUS D
 CS DIV BIOLOGICAL SCIENCES, NATIONAL RESEARCH COUNCIL CANADA, OTTAWA, ONT,
 CANADA K1A 0R6
 SO Canadian Journal of Microbiology, (1982) Vol. 28, No. 10, pp. 1158-1164.
 CODEN: CJMIAZ. ISSN: 0008-4166.
 DT Article
 FS BA
 LA ENGLISH

L3 ANSWER 24 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1981:213338 BIOSIS
 DN PREV198171083330; BA71:83330
 TI REGULATION OF **CELLULASE** SYNTHESIS IN ACETIVIBRIO-
CELLULOLYTICUS.
 AU SADDLER J N [Reprint author]; KHAN A W; MARTIN S M
 CS FORINTEK CANADA CORPORATION, EASTERN FOREST PRODUCTS LAB, 800 MONTREAL RD,
 OTTAWA, ONTARIO K1G 3Z5, CANADA
 SO Microbios, (1980) Vol. 28, No. 112, pp. 97-106.
 CODEN: MCBIA7. ISSN: 0026-2633.
 DT Article
 FS BA
 LA ENGLISH

L3 ANSWER 25 OF 181 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1980:281308 BIOSIS
 DN PREV198070073804; BA70:73804
 TI **CELLULASE** PRODUCTION BY ACETIVIBRIO-**CELLULOLYTICUS**.
 AU SADDLER J N [Reprint author]; KHAN A W
 CS FORINTEK CAN CORP, EAST FOR PROD LAB, 800 MONTREAL RD, OTTAWA, ONT K1G
 3Z5, CAN
 SO Canadian Journal of Microbiology, (1980) Vol. 26, No. 7, pp. 760-765.
 CODEN: CJMIAZ. ISSN: 0008-4166.
 DT Article
 FS BA
 LA ENGLISH

L3 ANSWER 26 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2004-03032 BIOTECHABS
 TI Novel thermal tolerant cellulase of glycoside hydrolase family,
 comprising catalytic domain, first and second carbohydrate binding
 domain, isolated from Acidothermus cellulolyticus, useful in cellulose
 degradation;
 recombinant enzyme protein production via plasmid expression in host
 cell for use in cellulose reduction
 AU ADNEY W S; DING S; VINZANT T B; HIMMEL M E; DECKER S R; MCCARTER S L
 PA ADNEY W S; DING S; VINZANT T B; HIMMEL M E; DECKER S R; MCCARTER S L
 PI US 2003096342 22 May 2003
 AI US 2001-917384 28 Jul 2001
 PRAI US 2001-917384 28 Jul 2001; US 2001-917384 28 Jul 2001
 DT Patent
 LA English
 OS WPI: 2003-863404 [80]

L3 ANSWER 27 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2004-01120 BIOTECHABS
 TI Manufacture of cellulase-producing substrate for use in manufacture of
 cellulase, used for decomposition or saccharification of cellulose,
 comprises steaming used paper in ferrous sulfate solution;
 cellulase production by Acremonium cellulolyticus
 fermentation
 PA DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO; TSUKISHIMA KIKAI CO LTD
 PI JP 2003137901 14 May 2003
 AI JP 2001-337383 2 Nov 2001
 PRAI JP 2001-337383 2 Nov 2001; JP 2001-337383 2 Nov 2001
 DT Patent
 LA Japanese
 OS WPI: 2003-818063 [77]

L3 ANSWER 28 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2003-05592 BIOTECHABS
 TI Expression and import of an active cellulase from a thermophilic
 bacterium into the chloroplast both in vitro and in vivo;
 tobacco transgenic plant generation by Agrobacterium
 tumefaciens-mediated gene transfer
 AU JIN RG; RICHTER S; ZHONG R; LAMPPA GK
 CS Univ Chicago
 LO Lamppa GK, Univ Chicago, Dept Mol Genet and Cell Biol, 920 E 58th St,
 Chicago, IL 60637USA
 SO PLANT MOLECULAR BIOLOGY; (2003) 51, 4, 493-507 ISSN: 0167-4412
 DT Journal
 LA English

L3 ANSWER 29 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-05897 BIOTECHABS
 TI Treatment with enzyme for carrying out reaction at higher than
 atmospheric pressure to activate enzyme and improve its stability,
 particularly for decomposing cellulose in waste to protect environment
 and reuse resources;
 environmental pollution and waste-disposal
 AU YAMANOBE T; OBUCHI K
 PA JAPAN NAT INST ADV IND SCI and TECHNOLOGY
 PI WO 2002000912 3 Jan 2002
 AI WO 2000-JP2645 27 Jun 2000
 PRAI JP 2000-281876 18 Sep 2000
 DT Patent
 LA Japanese
 OS WPI: 2002-130905 [17]

L3 ANSWER 30 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2000-08949 BIOTECHABS
 TI Expression of *Acidothermus cellulolyticus* endoglucanase-E1 in transgenic tobacco: biochemical characteristics and physiological effects;
 recombinant cellulase production in transgenic plant
 AU Dai Z; Hooker B S; Anderson D B; Thomas S R
 CS Pacific-Northwest-Lab.; Nat.Renewable-Energy-Lab.Colorado
 LO Bioprocessing Group, Environmental Technology Division, Pacific Northwest National Laboratory, P.O. Box 999, K2-10, Richland, WA 99352, USA.
 Email: ziyu.dai@pnl.gov
 SO Transgenic Res.; (2000) 9, 1, 43-54
 CODEN: TRSEES ISSN: 0962-8819
 DT Journal
 LA English

L3 ANSWER 31 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2000-05535 BIOTECHABS
 TI Construct useful for altering cellulose content in plants and increasing digestibility of plant material contains a DNA sequence encoding the E1-
cellulase enzyme from *Acidothermus cellulolyticus*;
 for biomass conversion, in textile finishing, production of surfactant additive, in food and beverage processing, in fermentation and paper and pulp manufacture
 AU Himmel M E; Schaaf D J; Stalker D M; Thomas S R
 PA Calgene
 LO Davis, CA, USA.
 PI US 6013860 11 Jan 2000
 AI US 1998-122533 24 Jul 1998
 PRAI US 1998-122533 24 Jul 1998
 DT Patent
 LA English
 OS WPI: 2000-159890 [14]

L3 ANSWER 32 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2000-00924 BIOTECHABS
 TI Designing catalytically enhanced endocellulase;
 from *Acidothermus cellulolyticus* (conference abstract)
 AU Sakon J; McCarley J; Lovett R; Adney W S; Baker J O; Himmel M E
 CS Univ.Arkansas; NREL
 LO Chemistry and Biochemistry Department, University of Arkansas, Fayetteville, AR 72701, USA.
 SO Abstr.Pap.Am.Chem.Soc.; (1999) 217 Meet. Pt.1, CELL008
 CODEN: ACSRAL ISSN: 0065-7727
 217th ACS National Meeting, American Chemical Society, Anaheim, CA, USA, 21-25 March, 1999.
 DT Journal
 LA English

L3 ANSWER 33 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2000-00923 BIOTECHABS
 TI Catalytically enhanced cellulase;
 from *Acidothermus cellulolyticus* (conference abstract)
 AU Lovett R M; Sakon J
 CS Univ.Arkansas
 LO Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, AR 72701, USA.
 SO Abstr.Pap.Am.Chem.Soc.; (1999) 217 Meet. Pt.1, CARB056
 CODEN: ACSRAL ISSN: 0065-7727
 217th ACS National Meeting, American Chemical Society, Anaheim, CA, USA, 21-25 March, 1999.
 DT Journal

LA English

L3 ANSWER 34 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1998-06501 BIOTECHABS
TI An endoglucanase;
produced by culturing *Acremonium cellulolyticus*, used in feedstuff or
as a food-additive
PA Agency-Ind.Sci.Technol.; Meiji-Seika
LO Japan.
PI JP 10066569 10 Mar 1998
AI JP 1996-243986 28 Aug 1996
PRAI JP 1996-243986 28 Aug 1996
DT Patent
LA Japanese
OS WPI: 1998-224334 [20]

L3 ANSWER 35 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1996-05416 BIOTECHABS
TI New isolated DNA encoding endoglucanase;
Acidothermus cellulolyticus recombinant
cellulase preparation by gene cloning and expression in
Escherichia coli for cellulose hydrolysis.
AU Thomas S R; Laymon R A; Himmel M E
PA Midwest-Res.Inst.
LO Kansas City, MO, USA.
PI WO 9602551 1 Feb 1996
AI WO 1995-US8868 14 Jul 1995
PRAI US 1994-276213 15 Jul 1994
DT Patent
LA English
OS WPI: 1996-105843 [11]

L3 ANSWER 36 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1995-01820 BIOTECHABS
TI New thermostable endoglucanase enzyme;
cellulase purification from **Acidothermus**
cellulolyticus
AU Adney W S; Thomas S R; Nieves R A; Himmel M E
PA Midwest-Res.Inst.
PI US 5366884 22 Nov 1994
AI US 1993-125115 21 Sep 1993
PRAI US 1993-125115 21 Sep 1993
DT Patent
LA English
OS WPI: 1995-005833 [01]

L3 ANSWER 37 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1993-12449 BIOTECHABS
TI New low molecular weight thermostable **cellulase** from
thermophilic **Acidothermus cellulolyticus**;
cellulase complex production with cellulase and cellobiohydrolase
activity, and purification and characterization
PA Midwest-Res.Inst.
PI WO 9315186 5 Aug 1993
AI WO 1993-US706 26 Jan 1993
PRAI US 1992-826089 27 Jan 1992
DT Patent
LA English
OS WPI: 1993-258667 [32]

L3 ANSWER 38 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1993-06520 BIOTECHABS

TI Endoglucanase-EI from *Acidothermus cellulolyticus*: biochemical
 characterization;
 thermostable cellulase purification (conference abstract)
 AU Adney W S; Tucker M P; Nieves R A; Laymon R A; Baker J O; Vinzant T B
 LO Applied Biological Sciences Branch, Alternative Fuels Division, NREL,
 1617 Cole Blvd., Golden, CO 80401, USA.
 SO Abstr.Pap.Am.Chem.Soc.; (1993) 205 Meet., Pt.2, BTEC24
 CODEN: ACSRAL
 DT Journal
 LA English

L3 ANSWER 39 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 1993-04786 BIOTECHABS
 TI Adsorption control of cellulase onto cellulose by modification with
 amphiphilic copolymer;
 for improved cellulose saccharification
 AU Kajiuchi T; Park J W; Moon H Y
 LO Department of Environmental Chemistry and Engineering, Tokyo Institute of
 Technology, Yokohama 227, Japan.
 SO J.Chem.Eng.Jpn.; (1993) 26, 1, 28-33
 CODEN: JCEJAC
 DT Journal
 LA English

L3 ANSWER 40 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 1993-04145 BIOTECHABS
 TI Modified cellulase with amphiphilic copolymers: solubilization in organic
 solvent;
 modification with polyalkylene glycol copolymer and maleic acid
 anhydride (conference paper)
 AU Kajiuchi T; Park J W
 LO Department of Environmental Chemistry and Engineering, Tokyo Institute of
 Technology, Midori-ku, Yokohama 227, Japan.
 SO Biochem.Eng.2001; (1992) 106-08
 DT Journal
 LA English

L3 ANSWER 41 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 1992-07720 BIOTECHABS
 TI Characteristics of cellulase modified with a copolymer of polyethylene
 glycol derivative and maleic acid anhydride;
Trichoderma viride, *Aspergillus niger*, *Acremonium*
cellulolyticus cellulase modification for improved
 enzyme stabilization
 AU Kajiuchi T; Park J W
 LO Department of Environmental Chemistry and Engineering, Tokyo Institute of
 Technology, Yokohama 227, Japan.
 SO J.Chem.Eng.Jpn.; (1992) 25, 2, 202-06
 CODEN: JCEJAC
 DT Journal
 LA English

L3 ANSWER 42 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 1992-02369 BIOTECHABS
 TI Anaerobic digestion of lignocellulosic biomass and wastes;
 lignocellulose degradation, bacterium cellulase activity,
 waste-disposal, review
 AU Adney W S; Rivard C J; Shiang M; *Himmel M E
 LO Applied Biological Sciences Section, Biotechnology Research Branch, Solar
 Fuels Research Division, Solar Energy Research Institute, 1617 Cole
 Blvd., Golden, CO 80401, USA.
 SO Appl.Biochem.Biotechnol.; (1991) 30, 2, 165-83

CODEN: ABIBDL

DT Journal
LA English

L3 ANSWER 43 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1989-14104 BIOTECHABS

TI A saccharifying method for wood material;
using *Trichoderma reesei* or *Acremonium cellulolyticus*
cellulase

PA Kobe-Steel
PI JP 01179696 17 Jul 1989
AI JP 1988-720 7 Jan 1988
PRAI JP 1988-720 7 Jan 1988
DT Patent
LA Japanese
OS WPI: 1989-245900 [34]

L3 ANSWER 44 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1989-14083 BIOTECHABS

TI A microbial saccharification method for wood;
cellulase production by *Trichoderma reesei*, *Acremonium cellulolyticus*
in culture medium containing finely crushed wood

PA Mokuzaiseibun-Sogoriyo
PI JP 01181794 19 Jul 1989
AI JP 1988-3777 13 Jan 1988
PRAI JP 1988-3777 13 Jan 1988
DT Patent
LA Japanese
OS WPI: 1989-251730 [35]

L3 ANSWER 45 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1989-08531 BIOTECHABS

TI Thermostable cellulase and its preparation method;
Thermoanaerobacter cellulolyticus gene cloning and expression in
Escherichia coli

PA Suntory
PI JP 01063377 9 Mar 1989
AI JP 1987-220792 3 Sep 1987
PRAI JP 1987-220792 3 Sep 1987
DT Patent
LA Japanese
OS WPI: 1989-118249 [16]

L3 ANSWER 46 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1987-08686 BIOTECHABS

TI Bacterium produces thermostable cellulase;
Acidothermus cellulolyticus enzyme characterization

AU Seltzer R
LO (Pub. Address) American Chemical Society, 1155 Sixteenth Street NW,
Washington D.C. 20036, USA.
SO Chem.Eng.News; (1987) 65, 18, 23-24
CODEN: CENEAR
DT Journal
LA English

L3 ANSWER 47 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1986-12272 BIOTECHABS

TI Saccharification of cellulose;
using **cellulase** from *Acremonium cellulolyticus*
with tolnaphthalate-resistance

PA Agency-Ind.Sci.
PI JP 61162196 22 Jul 1986

AI JP 1985-584 7 Jan 1985
PRAI JP 1985-584 7 Jan 1985
DT Patent
LA Japanese
OS WPI: 1986-230396 [35]

L3 ANSWER 48 OF 181 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1986-03542 BIOTECHABS
TI Method for producing a thermostable cellulase complex;
by culturing a strain of Acremonium cellulolyticus
PA Agency-Ind.Sci.; Jap.Min.Intern.Trade-Ind.
PI US 4562150 31 Dec 1985
AI US 1984-586723 6 Mar 1984
PRAI JP 1983-38434 9 Mar 1983; JP 1983-38432 9 Mar 1983
DT Patent
LA English
OS WPI: 1984-272210 [44]

L3 ANSWER 49 OF 181 CABA COPYRIGHT 2004 CABI on STN
AN 2000:58662 CABA
DN 20001608791
TI Accumulation of a thermostable endo-1,4-[beta]-D-glucanase in the apoplast
of Arabidopsis thaliana leaves
AU Ziegler, M. T.; Thomas, S. R.; Danna, K. J.
CS Department of Molecular, Cellular and Developmental Biology, University of
Colorado, Boulder, CO 80309-0347, USA.
SO Molecular Breeding, (2000) Vol. 6, No. 1, pp. 37-46. 41 ref.
DT Journal
LA English
ED Entered STN: 20000511
Last Updated on STN: 20000511

L3 ANSWER 50 OF 181 CABA COPYRIGHT 2004 CABI on STN
AN 1999:46654 CABA
DN 19991402538
TI Effect of additives, storage temperature and regional difference of
ensiling on the fermentation quality of napier grass (Pennisetum purpureum
Schum.) silage
AU Tamada, J.; Yokota, H.; Ohshima, M.; Tamaki, M.
CS Laboratory of Grassland Science, The Farm, School of Agricultural Science,
Nagoya University, Togo, Aichi 470-0151, Japan.
SO Asian-Australasian Journal of Animal Sciences, (1998) Vol. 12, No. 1, pp.
28-35. 24 ref.
ISSN: 1011-2367
DT Journal
LA English
ED Entered STN: 19990414
Last Updated on STN: 19990414

L3 ANSWER 51 OF 181 CABA COPYRIGHT 2004 CABI on STN
AN 1998:101459 CABA
DN 19980706648
TI Effects of addition of cell wall degrading enzyme derived from Acremonium
cellulolyticus Y-94 on fermentation quality, dry matter recovery and cell
wall components of grass silage
AU Aniwaru, A.; Ataku, K.; Narasaki, N.; No, E.
CS Rakuno Gakuen University, Ebetsu, Hokkaido 069, Japan.
SO Grassland Science, (1998) Vol. 43, No. 4, pp. 406-412. 19 ref.
DT Journal
LA Japanese
SL English
ED Entered STN: 19980714

Last Updated on STN: 19980714

L3 ANSWER 52 OF 181 CABA COPYRIGHT 2004 CABI on STN
AN 97:73881 CABA
DN 19970705149
TI Effect of cellulase preparation derived from Acremonium cellulolyticus
Y-94 on fermentation quality of gramineous grass silage
AU Ohmomo, S.; Tanaka, O.; Tomoda, Y.; Kono, T.; Tanno, Y.; Tokuda, H.;
Nakanishi, K.
CS National Grassland Research Institute, Nishinasuno, Tochigi 329-27, Japan.
SO Grassland Science, (1997) Vol. 42, No. 4, pp. 369-371. 12 ref.
DT Journal
LA Japanese
ED Entered STN: 19970709
Last Updated on STN: 19970709

L3 ANSWER 53 OF 181 CABA COPYRIGHT 2004 CABI on STN
AN 88:38893 CABA
DN 19881343021
TI Bacterial cellulases
AU MacKenzie, C. R.
CS Div. Biol. Sci., Natn. Res. Council Canada, Ottawa, Ont. K1A 0R6, Canada.
SO Biotechnology and renewable energy, (1986) pp. 76-82. 9 ref.
Publisher: Elsevier Applied Science Publishers Ltd. Barking, Essex
CY United Kingdom
DT Book; Book Article
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L3 ANSWER 54 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162346 CAPLUS
DN 140:198189
TI Thermal tolerant avicelase from Acidothermus cellulolyticus
IN Ding, Shi-you; Adney, William S.; Vinzant, Todd B.; Himmel, Michael E.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004038334	A1	20040226	US 2001-917376	20010728
	US 2003108988	A1	20030612	US 2002-155400	20021018
PRAI	US 2001-917376	A3	20010728		

L3 ANSWER 55 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:812649 CAPLUS
DN 140:266608
TI Computer simulations of cellulose I beta: (1) Interaction with
Acidothermus cellulolyticus Cel5A, (2) water structuring above two crystal
surfaces and (3) the potential of mean force as a function of distance for
glucose away from the crystalline cellulose surface
AU Skopec, Catherine Elizabeth
CS Cornell Univ., Ithaca, NY, USA
SO (2003) 202 pp. Avail.: UMI, Order No. DA3075853
From: Diss. Abstr. Int., B 2003, 63(12), 5588
DT Dissertation
LA English

L3 ANSWER 56 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:553389 CAPLUS
 DN 139:392792
 TI Preparation of N-acetyl-D-glucosamine and N,N'-diacetylchitobiose from
 chitin by enzymatic hydrolysis
 AU Sukwattanasinitt, Mongkol; Prakobkij, Wasinee; Sashiwa, Hitoshi; Aiba,
 Sei-ichi
 CS Center for Bioactive Compounds, Department of Chemistry, Faculty of
 Science, Chulalongkorn University, Bangkok, 10330, Thailand
 SO Advances in Chitin Science (2002), 5, 64-69
 CODEN: ACSCFF
 PB National Metal and Materials Technology Center
 DT Journal
 LA English
 RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 57 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:553388 CAPLUS
 DN 139:392791
 TI Preparation of N-acetyl-D-glucosamine and N-acetylchitooligosaccharides by
 enzymatic hydrolysis of chitin and chitosan
 AU Aiba, Sei-ichi
 CS Green Biotechnology Research Group, The Special Division for Human Life
 Technology, National Institute of Advanced Industrial Science and
 Technology, Ikeda, Osaka, 563-8577, Japan
 SO Advances in Chitin Science (2002), 5, 59-63
 CODEN: ACSCFF
 PB National Metal and Materials Technology Center
 DT Journal
 LA English
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 58 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:454936 CAPLUS
 DN 139:32511
 TI Thermotolerant avicelase AviIII and gene of Acidothermus, production of
 enzyme with recombinant cells, and its use in solid waste disposal
 IN Ding, Shi-You; Adney, William S.; Vinzant, Todd B.; Himmel, Michael E.
 PA USA
 SO U.S. Pat. Appl. Publ., 29 pp., Division of U.S. Ser. No. 917,376.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003108988	A1	20030612	US 2002-155400	20021018
	US 2004038334	A1	20040226	US 2001-917376	20010728
PRAI	US 2001-917376	A3	20010728		

L3 ANSWER 59 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:435217 CAPLUS
 DN 139:19027
 TI Protein and DNA sequences of thermal tolerant **cellulase** GuxA
 from **Acidothermus cellulolyticus** and used in degrading
 cellulose in agricultural biomass and municipal solid waste
 IN Ding, Shi-You; Adney, William S.; Vinzant, Todd B.; Himmel, Michael E.;
 Decker, Stephen R.
 PA USA
 SO U.S. Pat. Appl. Publ., 20 pp.
 CODEN: USXXCO

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003104522	A1	20030605	US 2001-917383	20010728
PRAI	US 2001-917383		20010728		

L3 ANSWER 60 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:360768 CAPLUS
DN 138:343029
TI Acremonium cellulolyticus for degradation of cellulosic materials
IN Yamabe, Hitoshi; Okuda, Naoyuki; Ouchi, Kenji; Suzuki, Kazuharu
PA National Institute of Advanced Industrial Science and Technology, Japan;
Tsukishima Kikai Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003135052	A2	20030513	JP 2001-337382	20011102
PRAI	JP 2001-337382		20011102		

L3 ANSWER 61 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:282290 CAPLUS
DN 138:303087
TI Novel enzyme compositions for poultry for production of oligosaccharides
IN Nishizawa, Koji; Nojiri, Chuhei; Hayashi, Yoshie; Fukasawa, Tomoyuki;
Yamanobe, Takashi
PA Meiji Seika Kaisha, Ltd., Japan; National Institute of Advanced Industrial
Science and Technology
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003028476	A1	20030410	WO 2002-JP9250	20020911
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,				
	RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				
	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
	PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,				
	NE, SN, TD, TG				

PRAI JP 2001-275006 A 20010911

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 62 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:163725 CAPLUS
DN 138:316553
TI Purification and some properties of a low endo-type cellulase
from Acremonium cellulolyticus
AU Nihira, Takanori; Kansarn, Supanee; Kono, Toshiaki; Okada, Gentaro

CS The Grad. Sch. Electron. Sci. Technol., Shizuoka Univ., Hamamatsu,
432-8561, Japan
SO Journal of Applied Glycoscience (2003), 50(1), 21-25
CODEN: JAGLFX; ISSN: 1344-7882
PB Japanese Society of Applied Glycoscience
DT Journal
LA English
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 63 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:118016 CAPLUS
DN 138:165733
TI Sequences of an **Acidothermus cellulolyticus**
thermostable **cellulase** GuxA and use as detergent
IN Ding, Shi-you; Adney, William S.; Vinzant, Todd B.; Himmel, Michael E.;
Decker, Stephen R.
PA Midwest Research Institute, USA
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003012109	A1	20030213	WO 2001-US23817	20010728
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,				
	FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,				
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,				
	MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,				
	TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU,				
	TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI WO 2001-US23817 20010728
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 64 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:118001 CAPLUS
DN 138:165728
TI Sequences of an **Acidothermus cellulolyticus** thermostable **avicelase** AviIII
and use as detergent
IN Ding, Shi-You; Adney, William S.; Vinzant, Todd B.; Himmel, Michael E.
PA Midwest Research Institute, USA
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003012090	A2	20030213	WO 2001-US23818	20010728
	WO 2003012090	A3	20030327		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,				
	FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,				
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,				
	MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,				
	TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU,				

TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI WO 2001-US23818 20010728

L3 ANSWER 65 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:471150 CAPLUS
DN 137:59489
TI High pressure enhancement of cellulase activities
AU Yamanobe, Takashi; Obuchi, Kaoru
CS Bioresources Laboratory, National Institute of Advanced Industrial Science
and Technology, Ibaraki, 305-8566, Japan
SO Progress in Biotechnology (2002), 19(Trends in High Pressure Bioscience
and Biotechnology), 193-198
CODEN: PBITE3; ISSN: 0921-0423
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 66 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:421840 CAPLUS
DN 137:369058
TI Acremonium cellulase effect on cell wall constituents and on in vitro
digestibility of silage dry matter
AU Zhuang, Yifen; Aniwaru, Aisan; No, Eiji; Terui, Hideki; Narasaki, Noboru;
Ataku, Kazuo
CS Dep. Dairy Sci., Rakuno Gakuen Univ. Dairy Sci. Inst., Ebetsu, 069-8501,
Japan
SO Journal of Rakuno Gakuen University, Natural Science (2002), 26(2),
295-299
CODEN: JRGSE2
PB Rakuno Gakuen University
DT Journal
LA Japanese

L3 ANSWER 67 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:332354 CAPLUS
DN 136:351397
TI Transgenic plants expressing ligninase and cellulase for degradation of
lignin and cellulose to produce sugars
IN Sticklen, Masomeh B.; Dale, Bruce E.; Maqbool, Shahina
PA Michigan State University, USA
SO PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002034926	A2	20020502	WO 2001-US32538	20011018
	WO 2002034926	A3	20030925		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002011798	A5	20020506	AU 2002-11798	20011018
US 2002138878	A1	20020926	US 2001-981900	20011018
PRAI US 2000-242408P	P	20001020		
WO 2001-US32538	W	20011018		

L3 ANSWER 68 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:323635 CAPLUS
 DN 137:43353
 TI Effect of single active-site cleft mutation on product specificity in a thermostable bacterial cellulase
 AU Rignall, Tauna R.; Baker, John O.; McCarter, Suzanne L.; Adney, William S.; Vinzant, Todd B.; Decker, Stephen R.; Himmel, Michael E.
 CS Biotechnology for Fuels and Chemicals Division, National Bioenergy Center, National Renewable Energy Laboratory, Golden, CO, 80401, USA
 SO Applied Biochemistry and Biotechnology (2002), 98-100(Biotechnology for Fuels and Chemicals), 383-394
 CODEN: ABIBDL; ISSN: 0273-2289
 PB Humana Press Inc.
 DT Journal
 LA English
 RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 69 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:623960 CAPLUS
 DN 135:180100
 TI Enzyme preparations for ruminant feed and cattle growth improvement with them
 IN Hino, Tsuneo; Sawada, Kazuhiko; Kitamura, Hiroshi; Mizoguch, Hideki; Shiraishi, Kuniko; Yamabe, Hitoshi
 PA Ministry of Economy, Trade and Industry; National Industrial Research Institute, Japan; Meiji Seika Kaisha, Ltd.
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2001231465	A2	20010828	JP 2000-47157	20000224
	WO 2001062103	A1	20010830	WO 2001-JP1352	20010223
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI	JP 2000-47157	A	20000224		

L3 ANSWER 70 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:824394 CAPLUS
 DN 134:2062
 TI Acidothermus cellulolyticus E1 endoglucanase variants Y245G, Y82R and W42R with increased catalytic activity
 IN Himmel, Michael E.; Adney, William S.; Baker, John O.; Vinzant, Todd B.; Thomas, Steven R.; Sakon, Joshua; Decker, Stephen R.
 PA Midwest Research Institute, USA
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----

PI WO 2000070031 A1 20001123 WO 2000-US13971 20000519
 WO 2000070031 C2 20020704
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
 CZ, DE, DK, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 2000052791 A5 20001205 AU 2000-52791 20000519
 EP 1179051 A1 20020213 EP 2000-937647 20000519
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 US 2003054535 A1 20030320 US 2001-997504 20011119
 PRAI US 1999-134925P P 19990519
 WO 2000-US13971 W 20000519
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 71 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:779462 CAPLUS
 DN 134:112153
 TI Molecular mechanics studies of cellulases
 AU Palma, Rocio; Zuccato, Pierfrancesco; Himmel, Michael E.; Liang, Guyan;
 Brady, John W.
 CS Department of Food Science, Cornell University, Ithaca, NY, 14853, USA
 SO ACS Symposium Series (2000), 769(Glycosyl Hydrolases for Biomass
 Conversion), 112-130
 CODEN: ACSMC8; ISSN: 0097-6156
 PB American Chemical Society
 DT Journal
 LA English
 RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 72 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:682204 CAPLUS
 DN 133:263049
 TI Purification and properties of two endo-**cellulases** from
 Acremonium **cellulolyticus**
 AU Kansarn, Supanee; Nihira, Takanori; Hashimoto, Emiko; Suzuki, Masayuki;
 Kono, Toshiaki; Okada, Gentaro
 CS The Grad. Sch. Electron. Sci. Technol., Shizuoka Univ., 3-5-1, Johoku,
 Hamamatsu, 432-8561, Japan
 SO Journal of Applied Glycoscience (2000), 47(3/4), 293-302
 CODEN: JAGLFX; ISSN: 1344-7882
 PB Japanese Society of Applied Glycoscience
 DT Journal
 LA English

L3 ANSWER 73 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:570087 CAPLUS
 DN 133:204595
 TI Purification and characterization of an endo-**cellulase** from
 Acremonium **cellulolyticus**
 AU Kansarn, Supanee; Matsushita, Naoyoshi; Kono, Toshiaki; Okada, Gentaro
 CS The Grad. Sch. Electron. Sci. Technol., Shizuoka Univ., 3-5-1, Johoku,
 Hamamatsu, 432-8561, Japan
 SO Journal of Applied Glycoscience (2000), 47(2), 177-185
 CODEN: JAGLFX; ISSN: 1344-7882

PB Japanese Society of Applied Glycoscience
DT Journal
LA English

L3 ANSWER 74 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:713405 CAPLUS
DN 132:46933
TI Transgenic fungal-based conversion of waste starch to industrial enzymes
AU Gao, J.; Hooker, B. S.; Skeen, R. S.; Anderson, D. B.
CS Pacific Northwest National Laboratory, Bioprocessing Group, Richland, WA, 99352, USA
SO Biomass: A Growth Opportunity in Green Energy and Value-Added Products, Proceedings of the Biomass Conference of the Americas, 4th, Oakland, Calif., Aug. 29-Sept. 2, 1999 (1999), Volume 1, 895-901. Editor(s): Overend, Ralph P.; Chornet, Esteban. Publisher: Elsevier Science, Oxford, UK.
CODEN: 68IQAG
DT Conference
LA English
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 75 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:48790 CAPLUS
DN 130:106943
TI Variants of Humicola family 6 endo-1,4- β -glucanases CelA and CelB and their use in cleaning compositions
IN Lund, Henrik; Nielsen, Jack Bech; Schulein, Martin; Damgaard, Bo; Andersen, Kim Vilbour
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 271 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9901544	A1	19990114	WO 1998-DK299	19980702
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9879088	A1	19990125	AU 1998-79088	19980702
	EP 1002061	A1	20000524	EP 1998-929249	19980702
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
PRAI	DK 1997-813		19970704		
	WO 1998-DK299		19980702		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 76 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:76000 CAPLUS
DN 128:151117
TI Improved thermostability in cellulase by production of the C-terminal truncated catalytic domain
IN Adney, William S.; Thomas, Steven R.; Baker, John O.; Himmel, Michael E.; Chou, Yat-Chen
PA Midwest Research Institute, USA

SO U.S., 19 pp., Cont.-in-part of U.S. 5,536,655.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5712142	A	19980127	US 1996-604913	19960222
	US 5110735	A	19920505	US 1989-412434	19890926
	EP 885955	A2	19981223	EP 1998-108104	19900827
	EP 885955	A3	19990407		
	R: DE, FR, GB				
	US 5275944	A	19940104	US 1992-826089	19920127
	US 5366884	A	19941122	US 1993-125115	19930921
	US 5536655	A	19960716	US 1994-276213	19940715
PRAI	US 1989-412434		19890926		
	US 1992-826089		19920127		
	US 1993-125115		19930921		
	US 1994-276213		19940715		
	EP 1990-914450		19900827		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 77 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:625595 CAPLUS

DN 127:274689

TI Cloning of gene for **Cellulase** AAC2 of Acremonium

cellulolyticus

IN Yamanobe, Takashi; Watanabe, Manabu; Hamaya, Toru; Sumida, Naomi; Aoyagi, Kaoru; Murakami, Takeshi

PA Agency of Industrial Sciences and Technology, Japan; Meiji Seika Kaisha Ltd.

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9733982	A1	19970918	WO 1997-JP824	19970314
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	EP 927756	A1	19990707	EP 1997-907324	19970314
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	AU 9719415	A1	19971001	AU 1997-19415	19970315
	US 6127160	A	20001003	US 1998-142759	19980914
PRAI	JP 1996-84479	A	19960314		
	WO 1997-JP824	W	19970314		

L3 ANSWER 78 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:617240 CAPLUS

DN 127:277489

TI Preparation of silage by using cellulase from Acremonium and Trichoderma to improve feed value

IN Yamabe, Hitoshi; Hamaya, Toru; Kono, Toshiaki; Kubota, Hidetoshi; Miura, Shunji; Kitamura, Toru; Yamashita, Masao

PA Agency of Industrial Sciences and Technology, Japan; Meiji Seika Kaisha,

Ltd.; Snow Brand Seed Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09238679	A2	19970916	JP 1996-78129	19960307
	JP 3051900	B2	20000612		
PRAI	JP 1996-78129		19960307		

L3 ANSWER 79 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:545756 CAPLUS
DN 125:274218
TI Effect of a cellulase preparation originated from Acremonium
cellulolyticus Y-94 on the release of sugar from alfalfa powder
AU Tomoda, Yasuyo; Tokuda, Hiroharu; Nakanishi, Kotoyoshi; Ohmomo, Sadahiro;
Kono, Toshiaki; Tanno, Yutaka
CS Bio Sci. Lab., Meiji Seika Kaisha, Ltd., Sakado, 350-02, Japan
SO Grassland Science (1996), 42(2), 159-162
CODEN: GRSCFG
PB Nippon Sochi Gakkai
DT Journal
LA Japanese

L3 ANSWER 80 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:545755 CAPLUS
DN 125:274217
TI Effect of cellulase preparation originated from Acremonium cellulolyticus
Y-94 on alfalfa silage fermentation
AU Tomoda, Yasuyo; Ohmomo, Sadahiro; Tanaka, Osamu; Kitamoto, Hiroko; Hamaya,
Toru; Kono, Toshiaki; Tanno, Yutaka
CS Bio Sci. Lab., Meiji Seika Kaisha, Ltd., Sakado, 350-02, Japan
SO Grassland Science (1996), 42(2), 155-158
CODEN: GRSCFG
PB Nippon Sochi Gakkai
DT Journal
LA Japanese

L3 ANSWER 81 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:457926 CAPLUS
DN 125:108737
TI Crystal structure of thermostable family 5 endocellulase E1 from
Acidothermus cellulolyticus in complex with cellotetraose
AU Sakon, Joshua; Adney, William S.; Himmel, Michael E.; Thomas, Steven R.;
Karplus, P. Andrew
CS Section of Biochemistry Molecular and Cell Biology, Cornell University,
Ithaca, NY, 14853, USA
SO Biochemistry (1996), 35(33), 10648-10660
CODEN: BICHAW; ISSN: 0006-2960
PB American Chemical Society
DT Journal
LA English

L3 ANSWER 82 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:886375 CAPLUS
DN 123:284267
TI A feed for domestic animals containing cellulase.
IN Shimizu, Takao; Kiriya, Susumu; Okada, Tadaaki; Kajii, Kenzo; Uotani,
Kazumichi; Kinoshita, Motoharu; Kawasaki, Yoshijuni; Kasuya, Kumiko;
Hashimoto, Kiyoshi

PA Meiji Seika Kaisha Ltd., Japan
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 674843	A1	19951004	EP 1995-104751	19950330
	R: DE, ES, FR, IT				
	JP 07264994	A2	19951017	JP 1994-83769	19940331
	JP 2948471	B2	19990913		
PRAI	JP 1994-83769		19940331		

L3 ANSWER 83 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:556109 CAPLUS
DN 123:4072
TI Quantitation of Acidothermus cellulolyticus E1 endoglucanase and Thermomonospora fusca E3 exoglucanase using enzyme-linked immunosorbent assay (ELISA)
AU Nieves, Rafael A.; Chou, Yat-Chen; Himmel, Michael E.; Thomas, Steven R.
CS Appl. Biol. Sci. Branch, Natl. Renewable Energy Lab., Golden, CO, 80401, USA
SO Applied Biochemistry and Biotechnology (1995), 51/52, 211-23
CODEN: ABIBDL; ISSN: 0273-2289
PB Humana
DT Journal
LA English

L3 ANSWER 84 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1993:554564 CAPLUS
DN 119:154564
TI Solubility of modified cellulase in mixed solvents of acetone/water and ethyl alcohol/water
AU Park, Jin Won; Kajiuchi, Toshio
CS Dep. Environ. Chem. Eng., Tokyo, Japan
SO Kagaku Kogaku Ronbunshu (1993), 19(4), 702-4
CODEN: KKRBW; ISSN: 0386-216X
DT Journal
LA Japanese

L3 ANSWER 85 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:489193 CAPLUS
DN 117:89193
TI Enzyme preparations containing cellulase of Acremonium for silage
IN Yamabe, Hitoshi; Oomomo, Sadahiro; Hayashi, Takahiko; Tanno, Yutaka; Takizawa, Toshio
PA Agency of Industrial Sciences and Technology, Japan; Meiji Seika Kaisha, Ltd.
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04117244	A2	19920417	JP 1990-235155	19900905
	JP 2531595	B2	19960904		
PRAI	JP 1990-235155		19900905		

L3 ANSWER 86 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:557057 CAPLUS

DN 115:157057
 TI Production of **cellulase** by **Acidothermus cellulolyticus**
 AU Shiang, Ming
 CS Colorado State Univ., Fort Collins, CO, USA
 SO (1990) 174 pp. Avail.: Univ. Microfilms Int., Order No. DA9117209
 From: Diss. Abstr. Int. B 1991, 52(1), 59
 DT Dissertation
 LA English

L3 ANSWER 87 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:467518 CAPLUS
 DN 115:67518
 TI Thermostable endoglucanases from *Acidothermus cellulolyticus*
 IN Mohagheghi, Ali; Tucker, Melvin P.; Himmel, Michael E.; Grohmann, Karel
 PA Midwest Research Institute, USA
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9105039	A1	19910418	WO 1990-US4868	19900827
	W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	US 5110735	A	19920505	US 1989-412434	19890926
	AU 9064202	A1	19910428	AU 1990-64202	19900827
	EP 494207	A1	19920715	EP 1990-914450	19900827
	EP 494207	B1	19981118		
	R: DE, FR, GB				
	JP 05500752	T2	19930218	JP 1990-513175	19900827
	JP 07002113	B4	19950118		
	EP 885955	A2	19981223	EP 1998-108104	19900827
	EP 885955	A3	19990407		
	R: DE, FR, GB				
	CA 2198828	AA	19980828	CA 1997-2198828	19970228
PRAI	US 1989-412434		19890926		
	EP 1990-914450		19900827		
	WO 1990-US4868		19900827		

L3 ANSWER 88 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:550886 CAPLUS
 DN 113:150886
 TI Wood powder for cellulase fermentation
 IN Sato, Hiroshi; Mimura, Morio; Takahara, Yoshimasa
 PA Mokuzai Seibun Sogo Riyo Gijutsu Kenkyu Kumiai, Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02119774	A2	19900507	JP 1988-3776	19880113
PRAI	JP 1988-3776		19880113		

L3 ANSWER 89 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:435844 CAPLUS
 DN 113:35844

TI Expression of a thermostable cellulase gene from a thermophilic anaerobe
 in *Saccharomyces cerevisiae*
 AU Saito, Takao; Suzuki, Tohru; Hayashi, Akihiro; Honda, Hiroyuki; Taya,
 Masahito; Iijima, Shinji; Kobayashi, Takeshi
 CS Fac. Eng., Nagoya Univ., Nagoya, 464, Japan
 SO Journal of Fermentation and Bioengineering (1990), 69(5), 282-6
 CODEN: JFBIEX; ISSN: 0922-338X
 DT Journal
 LA English

L3 ANSWER 90 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:405233 CAPLUS
 DN 109:5233
 TI Isolation and improvement of anaerobic bacteria producing ethanol from
 lignocellulose
 AU Kobayashi, Takeshi; Iijama, Shinji; Taya, Masahito
 CS Dep. Tech., Nagoya Univ., Nagoya, 464, Japan
 SO Baionasu Henkan Keikaku Kenkyu Hokoku (1987), (6), 84-98
 CODEN: BHKHEZ; ISSN: 0913-4549
 DT Journal
 LA Japanese

L3 ANSWER 91 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:201387 CAPLUS
 DN 108:201387
 TI Bacterial cellulases
 AU MacKenzie, C. R.
 CS Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, ON, K1A 0R6, Can.
 SO Biotechnol. Renewable Energy (1986), 76-82. Editor(s): Moo-Young, Murray;
 Hasnain, Sadiq; Lamprey, Jonathan. Publisher: Elsevier Appl. Sci., London,
 UK.
 CODEN: 56FKAQ
 DT Conference
 LA English

L3 ANSWER 92 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:172877 CAPLUS
 DN 106:172877
 TI Tolnaftate-resistant, high cellulase-producing *Acremonium*
cellulolyticus mutant
 IN Yamabe, Hitoshi; Mitsuishi, Yasushi; Takasaki, Yoshiyuki
 PA Agency of Industrial Sciences and Technology, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 61162167	A2	19860722	JP 1985-585	19850107
	JP 63062194	B4	19881201		
PRAI	JP 1985-585		19850107		

L3 ANSWER 93 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:624621 CAPLUS
 DN 105:224621
 TI Betaine for yield increase in cellulose manufacture by filamentous fungi
 IN Takasaki, Yoshiyuki; Yamabe, Hitoshi; Mitsuishi, Yasushi
 PA Agency of Industrial Sciences and Technology, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 61162179	A2	19860722	JP 1985-583	19850107
	JP 01012476	B4	19890301		
PRAI	JP 1985-583		19850107		

L3 ANSWER 94 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1986:624620 CAPLUS

DN 105:224620

TI Lecithin for yield increase in cellulase manufacture by filamentous fungi

IN Takasaki, Yoshiyuki; Yamabe, Hitoshi; Mitsuishi, Yasushi

PA Agency of Industrial Sciences and Technology, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 61162178	A2	19860722	JP 1985-582	19850107
	JP 01012475	B4	19890301		
PRAI	JP 1985-582		19850107		

L3 ANSWER 95 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1986:513637 CAPLUS

DN 105:113637

TI Cellulolytic enzymes and saccharification of cellulose

IN Yamanobe, Takashi; Mitsuishi, Yasushi; Takasaki, Yoshiyuki

PA Agency of Industrial Sciences and Technology, Japan

SO Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 188050	A2	19860723	EP 1985-302505	19850410
	EP 188050	A3	19871021		
	EP 188050	B1	19910724		
	R: BE, DE, FR, GB, NL				
	JP 61162177	A2	19860722	JP 1985-581	19850107
	JP 63063197	B4	19881206		
	JP 61162181	A2	19860722	JP 1985-3490	19850111
	JP 01021957	B4	19890424		
	US 4742005	A	19880503	US 1985-720416	19850405
	DK 8501666	A	19860708	DK 1985-1666	19850412
	DK 164070	B	19920504		
	DK 164070	C	19921012		
	US 4956291	A	19900911	US 1987-11043	19870205
PRAI	JP 1985-581		19850107		
	JP 1985-3490		19850111		
	US 1985-720416		19850405		

L3 ANSWER 96 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1985:60789 CAPLUS

DN 102:60789

TI Cellulose production from Acremonium culture

PA Agency of Industrial Sciences and Technology, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59166095	A2	19840919	JP 1983-38433	19830309
	JP 61017476	B4	19860507		
	US 4562150	A	19851231	US 1984-586723	19840306
PRAI	JP 1983-38432		19830309		
	JP 1983-38433		19830309		
	JP 1983-38434		19830309		

L3 ANSWER 97 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:22822 CAPLUS
DN 102:22822
TI Manufacture of cellulose
PA Agency of Industrial Sciences and Technology, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59166081	A2	19840919	JP 1983-38431	19830309
	JP 60043954	B4	19851001		
PRAI	JP 1983-38431		19830309		

L3 ANSWER 98 OF 181 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:22820 CAPLUS
DN 102:22820
TI Manufacture of cellulose
PA Agency of Industrial Sciences and Technology, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59166083	A2	19840919	JP 1983-38434	19830309
	JP 60024712	B4	19850614		
	US 4562150	A	19851231	US 1984-586723	19840306
PRAI	JP 1983-38432		19830309		
	JP 1983-38433		19830309		
	JP 1983-38434		19830309		

L3 ANSWER 99 OF 181 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
AN 1999(07):1840 CEABA-VTB FS B
DN CEABA: 1999:9772890
TI Thermostable purified endoglucanases from thermophilic bacterium
Acidothermus cellulolyticus
AU Mohagheghi, A.; Tucker, M. R.; Himmel, M. E.; Grohmann, K. (Midwest Res.
Inst., Kansas City MO 64110, USA)
SO European Patent Appl. (1998) EP 885955(Apl. US 412434 Filed 26 Sep 1989)
CODEN: EPXXDW
DT Patent
LA English

L3 ANSWER 100 OF 181 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
AN 1997(06):7010 CEABA-VTB FS B
DN CEABA: 1997:2833890

TI Cloning of **cellulase** genes from **Acidothermus cellulolyticus**
 AU Lastik, S. M.; Tucker, M P.; Grohmann, K. (Midwest Res. Inst., Kansas City, MO, USA)
 SO US Patent (1996) US 5514584 (Appl. US 266930 Filed 27 Jun 1994)
 CODEN: USXXAM
 DT Patent
 LA English

L3 ANSWER 101 OF 181 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1970(11):3658 CEABA-VTB FS B
 DN CEABA: 1970:8703253
 TI New cellulase works at high temperature
 CS Solar Energy Research Institute, USA
 SO Bioprocess. Technol. (1987) 9(6), p.2
 ISSN: 0163-6766
 DT Journal
 LA English

L3 ANSWER 102 OF 181 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1970(11):3459 CEABA-VTB FS B
 DN CEABA: 1970:8702918
 TI SERI discovers heat-tolerant cellulase
 CS Solar Energy Research Institute, USA
 SO Biotechnol. News (1987) 7(12), p.8
 CODEN: BINWEY ISSN: 0273-3226
 DT Journal
 LA English

L3 ANSWER 103 OF 181 CONFSCI COPYRIGHT 2004 CSA on STN
 AN 84:1587 CONFSCI
 DN 84007254
 TI Partial characterization of *Acetivibrio cellulolyticus*
cellulase
 AU Mackenzie, C.R.; Patel, G.B.
 CS Div. Biol. Sci., Natl. Res. Counc. Canada, Ottawa, Ontario
 SO Abstracts available: American Society for Microbiology, Publications Department, 1913 I St. NW, Washington, DC 20006, USA, Paper No. K148. Meeting Info.: 841 0195: American Society for Microbiology 84th Annual Meeting (8410195). St. Louis, MO (USA). 4-9 Mar 84. American Society for Microbiology (ASM).
 DT Conference
 FS DCCP
 LA UNAVAILABLE

L3 ANSWER 104 OF 181 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN
 AN 2003:42138 DISSABS Order Number: AAI3073336
 TI Enzymatic hydrolysis of rye straw and bermudagrass for ethanol production
 AU Sun, Ye [Ph.D.]; Cheng, Jiayang [advisor]; Westerman, Philip W. [advisor]
 CS North Carolina State University (0155)
 SO Dissertation Abstracts International, (2002) Vol. 63, No. 12B, p. 5958. Order No.: AAI3073336. 128 pages.
 ISBN: 0-493-93387-5.
 DT Dissertation
 FS DAI
 LA English

L3 ANSWER 105 OF 181 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN
 AN 90:34835 DISSABS Order Number: AAR9117209
 TI PRODUCTION OF **CELLULASE** BY **ACIDOTHERMUS**

CELLULOLYTICUS

AU SHIANG, MING [PH.D.]
CS COLORADO STATE UNIVERSITY (0053)
SO Dissertation Abstracts International, (1990) Vol. 52, No. 1B, p. 59. Order No.: AAR9117209. 174 pages.
DT Dissertation
FS DAI
LA English
ED Entered STN: 19921118
Last Updated on STN: 19921118

L3 ANSWER 106 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN ADH36638 peptide DGENE
TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.
IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
PA (DING-I) DING S.
(ADNE-I) ADNEY W S.
(VINZ-I) VINZANT T B.
(HIMM-I) HIMMEL M E.
(DECK-I) DECKER S R.
PI US 2003104522 A1 20030605 20p
AI US 2001-917383 20010728
PRAI US 2001-917383 20010728
DT Patent
LA English
OS 2004-106451 [11]
DESC Potential signal peptide of A. cellulolyticus glycoside hydrolase, GuxA.

L3 ANSWER 107 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN ADH36636 protein DGENE
TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.
IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
PA (DING-I) DING S.
(ADNE-I) ADNEY W S.
(VINZ-I) VINZANT T B.
(HIMM-I) HIMMEL M E.
(DECK-I) DECKER S R.
PI US 2003104522 A1 20030605 20p
AI US 2001-917383 20010728
PRAI US 2001-917383 20010728
DT Patent
LA English
OS 2004-106451 [11]
CR N-PSDB: ADH36637
DESC Acidothermus cellulolyticus glycoside hydrolase, GuxA.

L3 ANSWER 108 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN ADH36641 protein DGENE
TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.
IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
PA (DING-I) DING S.
(ADNE-I) ADNEY W S.
(VINZ-I) VINZANT T B.

(HIMM-I) HIMMEL M E.
 (DECK-I) DECKER S R.
 PI US 2003104522 A1 20030605 20p
 AI US 2001-917383 20010728
 PRAI US 2001-917383 20010728
 DT Patent
 LA English
 OS 2004-106451 [11]
 DESC A. cellulolyticus glycoside hydrolase, GuxA FN type III domain.

L3 ANSWER 109 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH36640 protein DGENE
 TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.

IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
 PA (DING-I) DING S.
 (ADNE-I) ADNEY W S.
 (VINZ-I) VINZANT T B.
 (HIMM-I) HIMMEL M E.
 (DECK-I) DECKER S R.
 PI US 2003104522 A1 20030605 20p
 AI US 2001-917383 20010728
 PRAI US 2001-917383 20010728
 DT Patent
 LA English
 OS 2004-106451 [11]
 DESC A. cellulolyticus glycoside hydrolase, GuxA CBD type III domain.

L3 ANSWER 110 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH36643 protein DGENE
 TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.

IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
 PA (DING-I) DING S.
 (ADNE-I) ADNEY W S.
 (VINZ-I) VINZANT T B.
 (HIMM-I) HIMMEL M E.
 (DECK-I) DECKER S R.
 PI US 2003104522 A1 20030605 20p
 AI US 2001-917383 20010728
 PRAI US 2001-917383 20010728
 DT Patent
 LA English
 OS 2004-106451 [11]
 DESC A. cellulolyticus glycoside hydrolase, GuxA CBD type II domain.

L3 ANSWER 111 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH36642 protein DGENE
 TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.

IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
 PA (DING-I) DING S.
 (ADNE-I) ADNEY W S.
 (VINZ-I) VINZANT T B.
 (HIMM-I) HIMMEL M E.
 (DECK-I) DECKER S R.

PI US 2003104522 A1 20030605 20p
 AI US 2001-917383 20010728
 PRAI US 2001-917383 20010728
 DT Patent
 LA English
 OS 2004-106451 [11]
 DESC A. cellulolyticus glycoside hydrolase, GuxA GH12 catalytic domain.

L3 ANSWER 112 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH36639 protein DGENE
 TI Novel isolated thermostable GuxA polypeptide useful for detecting polynucleotide encoding GuxA, assessing carbohydrate degradation activity of GuxA, reducing cellulose in starting material e.g., agricultural biomass.
 IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
 PA (DING-I) DING S.
 (ADNE-I) ADNEY W S.
 (VINZ-I) VINZANT T B.
 (HIMM-I) HIMMEL M E.
 (DECK-I) DECKER S R.

PI US 2003104522 A1 20030605 20p
 AI US 2001-917383 20010728
 PRAI US 2001-917383 20010728
 DT Patent
 LA English
 OS 2004-106451 [11]
 DESC A. cellulolyticus glycoside hydrolase, GuxA GH6 catalytic domain.

L3 ANSWER 113 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71661 Protein DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 DESC A. cellulolyticus Gux1 protein CBD_II domain fragment.

L3 ANSWER 114 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71660 Protein DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 DESC A. cellulolyticus Gux1 protein FN_III domain fragment.

L3 ANSWER 115 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71659 Protein DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.

PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 DESC A. cellulolyticus Gux1 protein CD (GH48) domain fragment.

L3 ANSWER 116 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71658 Protein DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 DESC A. cellulolyticus Gux1 protein CBD_III domain fragment.

L3 ANSWER 117 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71657 peptide DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 DESC A. cellulolyticus Gux1 protein potential signal sequence.

L3 ANSWER 118 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABP71656 Protein DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence, useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 CR N-PSDB: ABZ76162
 DESC A. cellulolyticus Gux1 protein.

L3 ANSWER 119 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAU79549 Protein DGENE
 TI Producing transgenic plants which after harvest degrade lignin and cellulose to fermentable sugars, by mating transgenic plant comprising DNA encoding cellulase with transgenic plant comprising DNA encoding ligninase -
 IN Sticklen M B; Dale B E; Maqbool S
 PA (UNMS) UNIV MICHIGAN STATE.
 PI WO 2002034926 A2 20020502 126p
 AI WO 2001-US32538 20011018
 PRAI US 2000-242408P 20001020

DT Patent
LA English
OS 2002-489947 [52]
CR N-PSDB: ABK86729
DESC **A. cellulolyticus cellulase** EI beta-1,4-endoglucanase precursor.

L3 ANSWER 120 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW25789 Protein DGENE
TI **Cellulase** derived from *Acremonium cellulolyticus* -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
CR N-PSDB: AAT91640
DESC *Acremonium cellulolyticus* cellulase.

L3 ANSWER 121 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN ADH36637 DNA DGENE
TI Novel isolated thermostable GuxA polypeptide useful for detecting
polynucleotide encoding GuxA, assessing carbohydrate degradation activity
of GuxA, reducing cellulose in starting material e.g., agricultural
biomass.,
IN Ding S; Adney W S; Vinzant T B; Himmel M E; Decker S R
PA (DING-I) DING S.
(ADNE-I) ADNEY W S.
(VINZ-I) VINZANT T B.
(HIMM-I) HIMMEL M E.
(DECK-I) DECKER S R.
PI US 2003104522 A1 20030605 20p
AI US 2001-917383 20010728
PRAI US 2001-917383 20010728
DT Patent
LA English
OS 2004-106451 [11]
CR P-PSDB: ADH36636
DESC DNA encoding *Acidothermus cellulolyticus* glycoside hydrolase, GuxA.

L3 ANSWER 122 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN ADA41756 DNA DGENE
TI Cost-effective saccharification of polysaccharides in crop residues for
producing fermentable sugar comprises transforming tissue of a crop plant
that produces seed with a nucleotide sequence encoding a polysaccharide-
degrading enzyme.
IN Hood E E; Howard J A
PA (HOOD-I) HOOD E E.
(HOWA-I) HOWARD J A.
PI US 2003109011 A1 20030612 19p
AI US 2002-310292 20021206
PRAI US 2001-340035P 20011206
DT Patent
LA English
OS 2003-626208 [59]
DESC *Acidothermus cellulolyticus* E1 cellulase
(E1 beta-1,4-endoglucanase) DNA.

L3 ANSWER 123 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABZ76162 DNA DGENE
 TI New thermal tolerant Gux1 peptide having specified amino acid sequence,
 useful in the degradation of cellulose to biofuels -
 IN Adney W S; Ding S; Vinzant T B; Himmel M E; Decker S R; Lantz McCarter S
 PA (MIDE) MIDWEST RES INST.
 PI WO 2003012095 A1 20030213 44p
 AI WO 2001-US23820 20010728
 PRAI WO 2001-US23820 20010728
 DT Patent
 LA English
 OS 2003-300494 [29]
 CR P-PSDB: ABP71656
 DESC A. cellulolyticus Gux1 protein encoding DNA.

L3 ANSWER 124 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ABK86729 cDNA DGENE
 TI Producing transgenic plants which after harvest degrade lignin and
 cellulose to fermentable sugars, by mating transgenic plant comprising
 DNA encoding cellulase with transgenic plant comprising DNA encoding
 ligninase -
 IN Sticklen M B; Dale B E; Maqbool S
 PA (UNMS) UNIV MICHIGAN STATE.
 PI WO 2002034926 A2 20020502 126p
 AI WO 2001-US32538 20011018
 PRAI US 2000-242408P 20001020
 DT Patent
 LA English
 OS 2002-489947 [52]
 CR P-PSDB: AAU79549
 DESC A. **cellulolyticus** cellulase EI beta-1,4-endoglucanase
 precursor cDNA, el.

L3 ANSWER 125 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91640 DNA DGENE
 TI **Cellulase** derived from Acremonium **cellulolyticus** -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314
 PRAI JP 1996-84479 19960314
 DT Patent
 LA Japanese
 OS 1997-470865 [43]
 CR P-PSDB: AAW25789
 DESC Acremonium **cellulolyticus** cellulase encoding DNA.

L3 ANSWER 126 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91642 DNA DGENE
 TI **Cellulase** derived from Acremonium **cellulolyticus** -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314
 PRAI JP 1996-84479 19960314

DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer Lys-39B.

L3 ANSWER 127 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91690 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer ACC2c-Xho.

L3 ANSWER 128 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91689 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer ACC2n-Stu.

L3 ANSWER 129 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91688 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer WACC-12.

L3 ANSWER 130 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91687 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme

IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer WACC-11.

L3 ANSWER 131 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91686 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer WACC-10.

L3 ANSWER 132 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91685 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer WACC-09.

L3 ANSWER 133 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91684 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer WACC-08.

L3 ANSWER 134 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91683 DNA DGENE
 TI **Cellulase** derived from *Acremonium cellulolyticus* -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314
 PRAI JP 1996-84479 19960314
 DT Patent
 LA Japanese
 OS 1997-470865 [43]
 DESC *Acremonium cellulolyticus* cellulase DNA amplifying
 primer WACC-07.

L3 ANSWER 135 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91650 DNA DGENE
 TI **Cellulase** derived from *Acremonium cellulolyticus* -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314
 PRAI JP 1996-84479 19960314
 DT Patent
 LA Japanese
 OS 1997-470865 [43]
 DESC *Acremonium cellulolyticus* cellulase DNA amplifying
 primer WACC-04.

L3 ANSWER 136 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91649 DNA DGENE
 TI **Cellulase** derived from *Acremonium cellulolyticus* -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314
 PRAI JP 1996-84479 19960314
 DT Patent
 LA Japanese
 OS 1997-470865 [43]
 DESC *Acremonium cellulolyticus* cellulase DNA amplifying
 primer WACC-03.

L3 ANSWER 137 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT91648 DNA DGENE
 TI **Cellulase** derived from *Acremonium cellulolyticus* -
 also expression vectors used for producing the protein, has improved
 cellulase activity compared to wild type enzyme
 IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
 PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
 (MEIJ) MEIJI SEIKA KAISHA LTD.
 PI WO 9733982 A1 19970918 47p
 AI WO 1997-JP824 19970314

PRAI JP 1996-84479 19960314

DT Patent

LA Japanese

OS 1997-470865 [43]

DESC Acremonium **cellulolyticus** cellulase DNA amplifying
primer WACC-02.

L3 ANSWER 138 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

AN AAT91647 DNA DGENE

TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme

IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T

PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.

(MEIJ) MEIJI SEIKA KAISHA LTD.

PI WO 9733982 A1 19970918 47p

AI WO 1997-JP824 19970314

PRAI JP 1996-84479 19960314

DT Patent

LA Japanese

OS 1997-470865 [43]

DESC Acremonium **cellulolyticus** cellulase DNA amplifying
primer WACC-01.

L3 ANSWER 139 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

AN AAT91682 DNA DGENE

TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme

IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T

PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.

(MEIJ) MEIJI SEIKA KAISHA LTD.

PI WO 9733982 A1 19970918 47p

AI WO 1997-JP824 19970314

PRAI JP 1996-84479 19960314

DT Patent

LA Japanese

OS 1997-470865 [43]

DESC Acremonium **cellulolyticus** cellulase DNA amplifying
primer WACC-06.

L3 ANSWER 140 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

AN AAT91681 DNA DGENE

TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme

IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T

PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.

(MEIJ) MEIJI SEIKA KAISHA LTD.

PI WO 9733982 A1 19970918 47p

AI WO 1997-JP824 19970314

PRAI JP 1996-84479 19960314

DT Patent

LA Japanese

OS 1997-470865 [43]

DESC Acremonium **cellulolyticus** cellulase DNA amplifying
primer WACC-05.

L3 ANSWER 141 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

AN AAT91641 DNA DGENE

TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved

cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer Lys-39A.

L3 ANSWER 142 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91646 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer Trp-30D.

L3 ANSWER 143 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91645 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying
primer Trp-30C.

L3 ANSWER 144 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91644 DNA DGENE
TI **Cellulase** derived from Acremonium **cellulolyticus** -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC Acremonium **cellulolyticus cellulase** DNA amplifying

primer Trp-30B.

L3 ANSWER 145 OF 181 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT91643 DNA DGENE
TI **Cellulase** derived from *Acremonium cellulolyticus* -
also expression vectors used for producing the protein, has improved
cellulase activity compared to wild type enzyme
IN Aoyagi K; Hamaya T; Murakami T; Sumida N; Watanabe M; Yamanobe T
PA (AGEN) AGENCY OF IND SCI & TECHNOLOGY.
(MEIJ) MEIJI SEIKA KAISHA LTD.
PI WO 9733982 A1 19970918 47p
AI WO 1997-JP824 19970314
PRAI JP 1996-84479 19960314
DT Patent
LA Japanese
OS 1997-470865 [43]
DESC *Acremonium cellulolyticus* cellulase DNA amplifying
primer Trp-30A.

L3 ANSWER 146 OF 181 FEDRIP COPYRIGHT 2004 NTIS on STN
AN 2004:118698 FEDRIP
NR AGRIC 0180856
TI PRODUCTION OF CELLULASE IN TRANSGENIC ALFALFA FOR USE IN BIOMASS
CONVERSION
SF Austin-phillips, S.
German, T. L.
Burgess, R. R.
Ziegelhoffer, T.
CSP UNIV OF WISCONSIN, BIOTECHNOLOGY CENTER, MADISON, WISCONSIN, 53706
FU NRI COMPETITIVE GRANT |c C
FS Department of Agriculture

L3 ANSWER 147 OF 181 FROSTI COPYRIGHT 2004 LFRA on STN
AN 502370 FROSTI
TI Protein having cellulase activities and process for producing the same.
IN Yamanobe T.; Watanabe M.; Hamaya T.; Sumida N.; Aoyagi K.; Murakami T.
PA Agency of Industrial Science and Technology; Meiji Seika Kaisha Ltd
SO European Patent Application
PI EP 927756 A1 19990707
AI 19970314
PRAI Japan 19960314
NTE 19990707
DT Patent
LA English
SL English

L3 ANSWER 148 OF 181 FROSTI COPYRIGHT 2004 LFRA on STN
AN 486767 FROSTI
TI Thermostable purified endoglucanases from thermophilic bacterium
Acidothermus cellulolyticus.
IN Mohagheghi A.; Tucker M.P.; Himmel M.E.; Grohmann K.
PA Midwest Research Institute
SO European Patent Application
PI EP 885955 A2
AI 19900827
PRAI United States 19890926
DT Patent
LA English
SL English

L3 ANSWER 149 OF 181 FSTA COPYRIGHT 2004 IFIS on STN
AN 2001(02):B0159 FSTA

TI Purification and characterization of an endo-cellulase from
 Acremonium **cellulolyticus**.
 AU Supannee Kansarn; Matsushita, N.; Kono, T.; Okada, G.
 CS Correspondence (Reprint) address, G. Okada, Graduate Sch. of Electronic
 Sci. & Tech., Shizuoka Univ., 3-5-1, Johoku, Hamamatsu 432-8561, Japan
 SO Journal of Applied Glycoscience, (2000), 47 (2) 177-185, 20 ref.
 ISSN: 1340-3494
 DT Journal
 LA English
 SL Japanese

L3 ANSWER 150 OF 181 FSTA COPYRIGHT 2004 IFIS on STN
 AN 1999(04):B0405 FSTA
 TI Hydrolysis of cellulose using ternary mixtures of purified cellulases.
 AU Baker, J. O.; Ehrman, C. I.; Adney, W. S.; Thomas, S. R.; Himmel, M. E.
 CS Biotech. Cent. for Fuels & Chem., Nat. Renewable Energy Lab., Golden, CO
 80401, USA
 SO Applied Biochemistry and Biotechnology, (1998), 70-72, 395-403, 14 ref.
 ISSN: 0273-2289
 DT Journal
 LA English

L3 ANSWER 151 OF 181 IFIPAT COPYRIGHT 2004 IFI on STN
 AN 02432993 IFIPAT;IFIUDB;IFICDB
 TI THERMOSTABLE PURIFIED ENDOGLUCANAS FROM ACIDOTHERMUS CELLULOLYTICUS ATCC
 43068; LOW MOLECULAR WEIGHT CELLULASE
 INF Adney, William S, Golden, CO
 Grohmann, Karel, Winter Haven, FL
 Himmel, Michael E, Littleton, CO
 Tucker, Melvin P, Lakewood, CO
 IN Adney William S; Grohmann Karel; Himmel Michael E; Tucker Melvin P
 PAF Midwest Research Institute, Kansas City, MO
 PA Midwest Research Institute (55400)
 EXNAM Naff, David M
 EXNAM Meller, Michael V
 AG Richardson, Ken
 PI US 5275944 A 19940104 (CITED IN 006 LATER PATENTS)
 AI US 1992-826089 19920127
 XPD 4 Jan 2011
 RLI US 1989-412434 19890926 CONTINUATION-IN-PART 5110735
 FI US 5275944 19940104
 US 5110735
 DT Utility
 FS CHEMICAL
 GRANTED
 OS CA 120:100558
 GOVI The United States Government has rights in this invention pursuant to
 Contract No. DE-AC02-83CH10093 between the United States Department of
 Energy and the Midwest Research Institute.
 MRN 006051 MFN: 0522
 CLMN 4
 GI 4 Drawing Sheet(s), 7 Figure(s).

L3 ANSWER 152 OF 181 LIFESCI COPYRIGHT 2004 CSA on STN
 AN 95:6787 LIFESCI
 TI Thermostable purified endoglucanase II from Acidothermus cellulolyticus
 ATCC
 AU Adney, W.S.; Thomas, S.R.; Nieves, R.A.; Himmel, M.E.
 CS Midwest Research Inst., Kansas City, MO (USA)
 SO (1994) . US Patent 5,366,884.
 DT Patent
 FS A

LA English

L3 ANSWER 153 OF 181 LIFESCI COPYRIGHT 2004 CSA on STN
AN 94:21017 LIFESCI
TI Thermostable purified endoglucanases from *Acidothermus cellulolyticus* ATCC 43068
AU Himmel, M.E.; Adney, W.S.; Tucker, M.P.; Grohmann, K.
CS Midwest Res. Inst., Kansas City, MO (USA)
SO (1994) . US Patent 5,275,944; US Cl. 435/209; Int. Cl. C12N 9/42, 1/00, 1/12..
DT Patent
FS A
LA English

L3 ANSWER 154 OF 181 LIFESCI COPYRIGHT 2004 CSA on STN
AN 85:41313 LIFESCI
TI Method for manufacture of cellulase.
AU Yamanobe, T.; Mitsuishi, Y.; Takasaki, Y.
CS Agency of Industrial Science and Technology, Tokyo (Japan)
PI US 4562150 1985
SO (1985) . US Cl. 435/99; Int. Cl. C12P 19/14, C12N 9/42, C12R 1/75..
DT Patent
FS A; W
LA English

L3 ANSWER 155 OF 181 LIFESCI COPYRIGHT 2004 CSA on STN
AN 84:45885 LIFESCI
TI Partial characterization of *Acetivibrio cellulolyticus* **cellulase**.
ABSTRACTS OF THE ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 1984.
AU Mackenzie, C.R.; Patel, G.B.
CS Div. Biol. Sci., Natl. Res. Council, Ont. K1A 0R6, Canada
SO (1984) p. 171. Summary only..
Meeting Info.: 84. Annual Meeting of the American Society for Microbiology. St. Louis, MO (USA). 4-9 Mar 1984.
ISBN: 0-914826-62-X.
DT Book
TC Conference; Abstract
FS W
LA English

L3 ANSWER 156 OF 181 LIFESCI COPYRIGHT 2004 CSA on STN
AN 82:56821 LIFESCI
TI Location and kinetic properties of the **cellulase** system of *Acetivibrio cellulolyticus* .
AU MacKenzie, C.R.; Bilous, D.
CS Div. Biol. Sci., Natl. Res. Council. Canada, Ottawa, Ont., Canada K1A 0R6
SO CAN. J. MICROBIOL., (1982) vol. 28, no. 10, pp. 1165-1172.
DT Journal
FS J; A
LA English
SL English; French

L3 ANSWER 157 OF 181 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS RESERVED. on STN
AN 1991-0558305 PASCAL
TIEN Regulating of **cellulase** synthesis in *Acidothermus cellulolyticus*
AU MING SHIANG; LINDEN J. C.; ALI MOHAGHEGHI; GROHMANN K.; HIMMEL M. E.
CS Colorado state univ., dep. microbiology, Fort Collins CO 80523, United States

SO Biotechnology progress, (1991), 7(4), 315-322, 46 refs.
 ISSN: 8756-7938 CODEN: BIPRET

DT Journal
 BL Analytic
 CY United States
 LA English
 AV INIST-20940, 354000012579800045

L3 ANSWER 158 OF 181 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS
 RESERVED. on STN

AN 1990-0026546 PASCAL

TIEN Ultra-thermostable **cellulases** from **Acidothermus**
Cellulolyticus: comparison of temperature optima with previously
 reported cellulases

AU TUCKER M. P.; MOHAGHEGHI A.; GROHMANN K.; HIMMEL M. E.
 CS Solar energy res. inst., solar fuels res. div., applied biological sci.
 sect., Golden CO 80401, United States

SO Bio/technology -- Nature Publishing Company, (1989), 7(8), 817-820, 34
 refs.
 ISSN: 0733-222X

DT Journal
 BL Analytic
 CY United States
 LA English
 AV CNRS-19676

L3 ANSWER 159 OF 181 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS
 RESERVED. on STN

AN 1980-0463762 PASCAL

TIEN **Cellulase** production by *Acetivibrio cellulolyticus*

AU SADDLER J. N.; KHAN A. W.
 CS National res. council Canada, Ottawa Ont. K1A 0R6, Canada

SO Canad. J. Microbiol., (1980), 26(7), 760-765, 27 refs.

DT Journal
 BL Analytic
 CY Canada
 LA English
 SL French
 AV CNRS-2184

L3 ANSWER 160 OF 181 PROMT COPYRIGHT 2004 Gale Group on STN

AN 89:171904 PROMT

TI Ultra-thermostable **cellulases** from **Acidothermus**
cellulolyticus: Comparison of temperature optima with previously
 reported cellulases
 Cellulases produced by newly discovered cellulotic bacterium possess
 highest temperature tolerance

SO Bio/Technology, (Aug 1989) pp. 817-20.
 ISSN: 0733-222X.

LA English

L3 ANSWER 161 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

AN 91:463987 SCISEARCH

GA The Genuine Article (R) Number: GA792

TI REGULATION OF **CELLULASE** SYNTHESIS IN **ACIDOTHERMUS-CELLULOLYTICUS**

AU SHIANG M; LINDEN J C; MOHAGHEGHI A; GROHMANN K; HIMMEL M E (Reprint)
 CS SOLAR ENERGY RES INST, SOLAR FUELS RES, BIOTECHNOL RES BRANCH, APPL BIOL
 SCI SECT, GOLDEN, CO, 80401; COLORADO STATE UNIV, DEPT MICROBIOL, FT
 COLLINS, CO, 80523; COLORADO STATE UNIV, DEPT AGR & CHEM ENGN, FT COLLINS,
 CO, 80523

CYA USA
 SO BIOTECHNOLOGY PROGRESS, (1991) Vol. 7, No. 4, pp. 315-322.
 DT Article; Journal
 FS AGRI
 LA ENGLISH
 REC Reference Count: 46 Keyed
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 162 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 91:433991 SCISEARCH
 GA The Genuine Article (R) Number: FY585
 TI **CELLULOSE** PRODUCTION BY **ACIDOTHERMUS-CELLULOLYTICUS** - GROWTH ON SOLKA FLOC CELLULOSE AND SIMPLE SUGAR MIXTURES
 AU SHIANG M; LINDEN J C; MOHAGHEGHI A; TUCKER M P; GROHMANN K; HIMMEL M E (Reprint)
 CS SOLAR ENERGY RES INST, DIV SOLAR FUELS RES, BIOTECHNOL RES BRANCH, APPL BIOL SCI SECT, GOLDEN, CO, 80401; COLORADO STATE UNIV, DEPT MICROBIOL, FT COLLINS, CO, 80523; COLORADO STATE UNIV, DEPT AGR & CHEM ENGN, FT COLLINS, CO, 80523

CYA USA
 SO BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, (1991) Vol. 14, No. 1, pp. 30-40.
 DT Article; Journal
 FS LIFE; AGRI
 LA ENGLISH
 REC Reference Count: 27

L3 ANSWER 163 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 91:127057 SCISEARCH
 GA The Genuine Article (R) Number: EZ518
 TI ENHANCED PRODUCTION OF **CELLULOSE** USING **ACIDOTHERMUS-CELLULOLYTICUS** IN FED-BATCH CULTURE
 AU SHIANG M; LINDEN J C; MOHAGHEGHI A; GROHMANN K; HIMMEL M E (Reprint)
 CS SOLAR ENERGY RES INST, DIV SOLAR FUELS RES, BIOTECHNOL RES BRANCH, APPL BIOL SCI STN, GOLDEN, CO, 80401; COLORADO STATE UNIV, DEPT MICROBIOL, FT COLLINS, CO, 80523; COLORADO STATE UNIV, DEPT AGR & CHEM ENGN, FT COLLINS, CO, 80523

CYA USA
 SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (1991) Vol. 34, No. 5, pp. 591-597.
 DT Article; Journal
 FS LIFE; AGRI
 LA ENGLISH
 REC Reference Count: 14
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 164 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 90:291820 SCISEARCH
 GA The Genuine Article (R) Number: DE573
 TI **CELLULOSE** PRODUCTION BY **ACIDOTHERMUS-CELLULOLYTICUS**
 AU SHIANG M; LINDEN J C (Reprint); MOHAGHEGHI A; RIVARD C J; GROHMANN K; HIMMEL M E
 CS COLORADO STATE UNIV, DEPT AGR & CHEM ENGN, FT COLLINS, CO, 80523; SOLAR ENERGY RES INST, DIV SOLAR FUELS RES, BIOTECHNOL RES BRANCH, APPL BIOL SCI SECT, GOLDEN, CO, 80401; COLORADO STATE UNIV, DEPT MICROBIOL, FT COLLINS, CO, 80523

CYA USA
 SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (1990) Vol. 24-5, pp. 223-235.
 DT Article; Journal
 FS LIFE; AGRI
 LA ENGLISH

REC Reference Count: 18

L3 ANSWER 165 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 90:236857 SCISEARCH
GA The Genuine Article (R) Number: CZ783
TI **CELLULASE** PRODUCTION BY **ACIDOTHERMUS-CELLULOLYTICUS** - GROWTH ON SOLKA FLOC CELLULOSE AND SIMPLE SUGAR MIXTURES
AU SHIANG M (Reprint); LINDEN J C; HIMMEL M E; TUCKER M P; GROHMANN K
CS SOLAR ENERGY RES INST, BIOTECHNOL BRANCH, GOLDEN, CO, 80401; COLORADO STATE UNIV, DEPT MICROBIOL, FT COLLINS, CO, 80523
CYA USA
SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (1990) Vol. 199, No. APR, pp. 21-BIOT.
DT Conference; Journal
LA ENGLISH
REC No References

L3 ANSWER 166 OF 181 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 87:147105 SCISEARCH
GA The Genuine Article (R) Number: G2896
TI CHARACTERIZATION OF THE HIGHLY THERMAL-STABLE **CELLULASE** SYSTEM FROM **ACIDOTHERMUS-CELLULOLYTICUS**
AU TUCKER M (Reprint); OH K; RIVARD C; MOHAGHEGHI A; GROHMANN K; HIMMEL M
CS SOLAR ENERGY RES INST, SOLAR FUELS RES DIV, BIOTECHNOL BRANCH, GOLDEN, CO, 80401
CYA USA
SO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (1987) Vol. 193, No. APR, pp. 43-CELL.
DT Conference; Journal
LA ENGLISH
REC No References

L3 ANSWER 167 OF 181 TOXCENTER COPYRIGHT 2004 ACS on STN
AN 1997:195202 TOXCENTER
CP Copyright 2004 ACS
DN CA12720277489B
TI Preparation of silage by using cellulase from Acremonium and Trichoderma to improve feed value
AU Yamabe, Hitoshi; Hamaya, Toru; Kono, Toshiaki; Kubota, Hidetoshi; Miura, Shunji; Kitamura, Toru; Yamashita, Masao
CS ASSIGNEE: Snow Brand Seed Co., Ltd.
PI JP 97238679 A2 16 Sep 1997
SO (1997) Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF.
CY JAPAN
DT Patent
FS CAPLUS
OS CAPLUS 1997:617240
LA Japanese
ED Entered STN: 20011116
Last Updated on STN: 20020618

L3 ANSWER 168 OF 181 USPATFULL on STN
AN 2004:115915 USPATFULL
TI Processes and vectors for producing transgenic plants
IN Gleba, Yuri, Halle, GERMANY, FEDERAL REPUBLIC OF
Klimyuk, Victor, Halle, GERMANY, FEDERAL REPUBLIC OF
Benning, Gregor, Halle, GERMANY, FEDERAL REPUBLIC OF
Eliby, Serik, Halle, GERMANY, FEDERAL REPUBLIC OF
PI US 2004088764 A1 20040506
AI US 2003-416931 A1 20031224 (10)

WO 2001-EP14421 20011207
PRAI DE 2000-10061150 20001208
DT Utility
FS APPLICATION
LREP MYERS BIGEL SIBLEY & SAJOVEC, PO BOX 37428, RALEIGH, NC, 27627
CLMN Number of Claims: 35
ECL Exemplary Claim: 1
DRWN 16 Drawing Page(s)
LN.CNT 1128

L3 ANSWER 169 OF 181 USPATFULL on STN
AN 2002:50817 USPATFULL
TI Saccharification enzymes from hyperthermophilic bacteria and processes
for their production
IN Kelly, Robert M., Ellicott City, MD, United States
Brown, Stephen H., Owings Mills, MD, United States
Costantino, Henry R., Westfield, NJ, United States
PA Johns Hopkins University, Baltimore, MD, United States (U.S.
corporation)
PI US 6355467 B1 20020312
AI US 2000-503335 20000214 (9)
RLI Division of Ser. No. US 1989-424170, filed on 20 Oct 1989, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Marx, Irene
LREP Venable, Hobbs, Ann S.
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 8 Drawing Page(s)
LN.CNT 1212
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 170 OF 181 USPATFULL on STN
AN 2000:131172 USPATFULL
TI Continuous biopolishing of cellulose-containing fabrics
IN Liu, Jiyin, Raleigh, NC, United States
Condon, Brian, Wake Forest, NC, United States
PA Novo Nordisk Biochem North America, Inc., Franklinton, NC, United States
(U.S. corporation)
PI US 6126698 20001003
AI US 1998-215042 19981217 (9)
PRAI US 1997-68274P 19971219 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Liott, Caroline D.
LREP Zelson, Esquire, Steve T., Green, Esquire, Reza
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 772
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 171 OF 181 USPATFULL on STN
AN 1999:142242 USPATFULL
TI Transgenic plants as an alternative source of lignocellulosic-degrading
enzymes
IN Austin-Phillips, Sandra, Madison, WI, United States
Burgess, Richard R., Madison, WI, United States
German, Thomas L., Hollandale, WI, United States
Ziegelhoffer, Thomas, Madison, WI, United States
PA Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S.
corporation)

PI US 5981835 19991109
AI US 1997-883495 19970626 (8)
PRAI US 1996-28718P 19961017 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Benzion, Gary; Assistant Examiner: Zaghmout, Ousama
LREP DeWitt Ross & Stevens S. C.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 1437
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 172 OF 181 USPATFULL on STN
AN 95:62628 USPATFULL
TI Low molecular weight thermostable β -D-glucosidase from acidothermus cellulolyticus
IN Himmel, Michael E., Littleton, CO, United States
Tucker, Melvin P., Lakewood, CO, United States
Adney, William S., Golden, CO, United States
Nieves, Rafael A., Lakewood, CO, United States
PA Midwest Research Institute, Kansas City, MO, United States (U.S. corporation)
PI US 5432075 19950711
AI US 1994-275995 19940715 (8)
RLI Continuation-in-part of Ser. No. US 1993-125115, filed on 21 Sep 1993, now patented, Pat. No. US 5366884 which is a continuation-in-part of Ser. No. US 1992-826089, filed on 27 Jan 1992, now patented, Pat. No. US 5275944 which is a continuation-in-part of Ser. No. US 1989-412434, filed on 26 Sep 1989, now patented, Pat. No. US 5110735
DT Utility
FS Granted
EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Meller, Mike
LREP O'Connor, Edna M.
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 412
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 173 OF 181 USPATFULL on STN
AN 92:36120 USPATFULL
TI Thermostable purified endoglucanase from thermophilic bacterium acidothermus cellulolyticus
IN Tucker, Melvin P., Lakewood, CO, United States
Grohmann, Karel, Littleton, CO, United States
Himmel, Michael E., Littleton, CO, United States
Mohagheghi, Ali, Golden, CO, United States
PA Midwest Research Institute, Kansas City, MO, United States (U.S. corporation)
PI US 5110735 19920505
AI US 1989-412434 19890926 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Meller, Michael V.
LREP Richardson, Ken
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 369
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 174 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
 AN 1991(17):106029 ENERGY
 TI Bacterial cellulases: Regulation of synthesis. (Acidothermus
 cellulolyticus.)
 AU Linden, J.C.; Shiang, M. (Colorado State Univ., Fort Collins (USA))
 NR SERI/TP--231-3996
 SO Ethanol annual report FY 1990.
 Editor(s): Texeira, R.H.; Goodman, B.J.
 Solar Energy Research Inst., Golden, CO (United States)
 Jan 1991. p. 227-242 of 344 p. OSTI as DE91002125; NTIS.
 DT Report Article; Progress Report
 CY United States
 LA English
 FA AB

L3 ANSWER 175 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
 AN 1991(17):106024 ENERGY
 TI Cellulase enzymology research: An overview.
 AU Himmel, M.E.; Grohmann, K.
 NR SERI/TP--231-3996
 SO Ethanol annual report FY 1990.
 Editor(s): Texeira, R.H.; Goodman, B.J.
 Solar Energy Research Inst., Golden, CO (United States)
 Jan 1991. p. 172-175 of 344 p. OSTI as DE91002125; NTIS.
 DT Report Article; Progress Report
 CY United States
 LA English
 FA AB

L3 ANSWER 176 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
 AN 1990(2):6831 ENERGY
 TI Optimization of cellulase productivity from acidothermus cellulolyticus.
 AU Shiang, M.; Linden, J.C.; Mohagheghi, A.; Grohmann, K.; Himmel, M.
 (Colorado State Univ., Fort Collins (USA))
 NR SERI/SP--231-3521
 SO Ethanol from biomass. FY 1988, annual report.
 Solar Energy Research Inst., Golden, CO (USA)
 Jun 1989. p. B.175-B.183 of 453 p. NTIS, PC A20/MF A01 as DE89009460.
 DT Report Article; Progress Report
 CY United States
 LA English
 FA AB

L3 ANSWER 177 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
 AN 1989(13):83504 ENERGY
 TI Optimization of cellulase productivity from Acidothermus cellulolyticus.
 AU Shiang, M.; Linden, J.C.; Mohagheghi, A.; Tucker, M.; Himmel, M.
 (Colorado State Univ., Fort Collins (USA)) [United States]
 CS Solar Energy Research Inst., Golden, CO (USA)
 NR SERI/SP--231-3245; DE89000831
 SO FY 1987 biochemical conversion/alcohol fuels program. Annual report.
 Nov 1988. pp. B.249-B.257 Availability: NTIS, PC A23/MF A01; 1.
 DT Report Article; Progress Report
 CY United States
 LA English

L3 ANSWER 178 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
 AN 1989(13):83500 ENERGY
 TI Thermostable cellulase enzymes from Acidothermus cellulolyticus: studies
 with growth media activities.
 AU Tucker, M.P.; Mohagheghi, A.; Himmel, M.E. [United States]

CS Solar Energy Research Inst., Golden, CO (USA)
NR SERI/SP--231-3245; DE89000831
SO FY 1987 biochemical conversion/alcohol fuels program. Annual report.
Nov 1988. pp. B.210-B.217 Availability: NTIS, PC A23/MF A01; 1.
DT Report Article; Progress Report
CY United States
LA English

L3 ANSWER 179 OF 181 ENERGY COPYRIGHT 2004 USDOE/IEA-ETDE on STN
AN 1988(7):61508 ENERGY
TI Evaluation of thermal stable cellulase from Acidothermus cellulolyticus.
AU Himmel, M.E. (Solar Energy Research Institute, Golden, CO) [United
States]
CS USDOE Assistant Secretary for Conservation and Renewable Energy,
Washington, DC. Biofuels and Municipal Waste Technology Div.
NR DOE/CH/10093--6; DE87001140
SO Biofuels and municipal waste technology research program summary: FY
1986.
Jul 1987. pp. 136-137 Availability: NTIS, PC A16/MF A01.
DT Report Article
CY United States
LA English

L3 ANSWER 180 OF 181 PAPERCHEM2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
AN 91:13126 PAPERCHEM2
SN 000303037
DN AB6213126
TI Bacterial Cellulases: Regulation of Synthesis
AU Linden, J. C.; Shiang, M. (Colorado State University. (Fort Collins: CO:
USA))
SO ACS Symp. Ser., (April 1991) no. 460, pp. 331-348. [Engl.].
DT Journal
FS PAPERCHEM
LA English

L3 ANSWER 181 OF 181 BABS COPYRIGHT 2004 BEILSTEIN MDL on STN
AN 6327860 BABS
TI Utilization of commercial non-chitinase enzymes from fungi for preparation
of 2-acetamido-2-deoxy-D-glucose from β -chitin
AU Sukwattanasinitt, Mongkol; Zhu, Hong; Sashiwa, Hitoshi; Aiba, Sei-ichi
SO Carbohydr.Res. (2002), 337(2), 133 - 138
CODEN: CRBRAT
DT Journal
LA English
SL English

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